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## SUSTAINABLE LIGHTING SOLUTIONS FROM RYDER INTERNATIONAL

Ryder International and its group companies are committed to bringing the most sustainable and latest products to the construction industry to help not only with cost reduction in installations but also with ongoing operating costs and sustainability targets. Did you know we have replacement LED Tubes as well and that a normal fluorescent tube has sufficient mercury in it to contaminate 30,000 litres of water, what happens to the water table if these go to landfill?

### Save more than 80% on lighting bills and reduce your carbon footprint.

We have sourced and helped develop eco friendly LED lighting solutions using the latest technology. We believe that the lighting solutions in this brochure will help to light the world and save energy. We have ISO9001008 at the factory by UKAS. We work with Edison, Lumenlux, and Epistar to guarantee that our products meet the latest stringent requirements and have proven reliability. All our LED lighting solutions are fit for purpose.

#### There are three sections in this brochure:

Residential and Commercial Lighting:  
Commercial applications:  
Architectural and Display Solutions  
Equivalent Watts's incandescent, halogen and fluorescent

pages 2 to 13  
pages 14 to 23  
pages 24 to 32  
pages 33 to 36

#### Easy retrofitting using existing light fittings:

These LED lighting solutions have never been seen in the UK market and with the latest chip technology allowing extremely fast switching times with a brighter light our LED's can easily be used for retrofitting. Existing lights can be replaced and with a normal life span of more than 12 years you save not only on your energy bills but also on replacement bulbs.



"CD" in the product codes means "cool white (6000K colour temperature)" and a "Diffused light output". The lights can be also made with clear glass without a diffused light. The advantage of clear glass is that the down light gives about 10% more light output however it is too bright for the human eye. That is why most LED lights use a diffused filter.



"WD" in the product codes means "warm white (3000K color temperature)" and a "Diffused light output". The warm light is more like a normal bulb but for some areas you may require a very bright white light. The table above shows the comparison of our low watt LED bulbs compared to the old incandescent bulb, it is obvious from this how much savings can be made.



## **Ecostar Range of LED Sustainable Lighting Solutions**

### **ECOSTAR 6W DIRECT REPLACEMENT LED BULB FOR 60w BULBS BAYONET B22 OR STANDARD SCREW FITTING**



High efficiency / high lumen bulb which is equivalent to a 60 Watt incandescent lamp. RoHS compliant and CE tested. The 6w Ecostar LED Bulb is a new generation of long life, energy efficient lighting solutions.

It gives more than eight times the amount of light than the traditional incandescent lamp, with no infrared radiation. Fast switching performance means these LED light bulbs instantly reach their highest brightness and have a very long service life which will still remain at 70% of their luminous flux after 30,000 working hours. They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar LED Bulb is the best sustainable choice.

#### **Specification Features:**

Construction: Aluminium alloy heat sinking body. Fire proof PC cover with a dust resistant design.

Lumen Output: Up to 450 lumens

Lamp life : 70% lumen maintenance at 30,000 hours

Optics: 150° projecting degree

Voltage: 90~260V 50/60Hz Auto Sensing Power Supply

Wattage: 6W

Driver: Built-in high efficiency constant current power supply with EMI protection

Weight: 0.076kg

Dimensions: 90mm long x 50mm in diameter

Operational Environment: -20°C to +40°C

Safety Certification: CE

Warranty: 2 years

#### **ORDERING INFORMATION    Models and Specifications**

LE-BULB-105C Cool white, 6000K very bright light

LE-BULB-105W Warm white, 3000K same as a normal bulb

**ECOSTAR 8 W REPLACEMENT FOR A 100W INCANDESCENT BULB  
BAYONET B22 OR STANDARD SCREW FITTING**



High efficiency / high lumen bulb which is equivalent to a 100 Watt incandescent lamp RoHS compliant and CE tested. The 8w Ecostar LED Bulb is a new generation of long life, energy efficient lighting solutions.

It gives more than eight times the amount of light than the traditional incandescent lamp, with no infrared radiation. Fast switching performance means these LED light bulbs instantly reach their highest brightness and have a very long service life which will still remain at 70% of their luminous flux after 30,000 working hours. They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar LED Bulb is the best sustainable choice.

**Specification Features:**

Construction: Aluminium alloy heat sinking body. Fire proof PC cover. Dust resistant design.

Lumen Output: Up to 790 lumens

Lamp life : 70% lumen maintenance at 30,000 hours

Optics: 150° projecting degree

Voltage: 90~260V 50/60Hz Auto Sensing Power Supply

Wattage: 8W

Driver: Built-in high efficiency constant current power supply with EMI protection

Weight: 140kg

Dimensions: 60mm in diameter x 126mm long

Operational Environment: -20°C to +40°C

Safety Certification: CE

Warranty: 2 years

**ORDERING INFORMATION Models Specifications**

LE-BULB-145C

Cool white, 6000K

LE-BULB-145W

Warm white, 3000K

## **ECOSTAR 13W REPLACEMENT FOR A 150W INCANDESCENT BULB BAYONET B22 OR STANDARD SCREW FITTING**



High efficiency / high lumen bulb which is equivalent to a 150 Watt incandescent lamp RoHS compliant and CE tested. The 8w Ecostar LED Bulb is a new generation of long life, energy efficient lighting solutions.

It gives more than eight times the amount of light than the traditional incandescent lamp, with no infrared radiation. Fast switching performance means these LED light bulbs instantly reach their highest brightness and have a very long service life which will still remain at 70% of their luminous flux after 30,000 working hours. They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar LED Bulb is the best sustainable choice.

### **Specification Features Construction:**

Aluminium alloy heat sinking body. Fire proof PC cover. Dust resistant design.

Lumen Output: Up to 1160 lumens

Lamp life 70% lumen maintenance at 30,000 hours

Optics: 150° projecting degree

Voltage: 90~260V 50/60Hz Auto Sensing Power Supply

Wattage: 13W

Driver: Built-in high efficiency constant current power supply with EMI protection

Weight: 270 g

Dimensions: 80 in diameter x 135mm long

Operational Environment: -20°C to +40°C

Safety Certification: CE

Warranty: 2 years

### **ORDERING INFORMATION Models and Specifications**

LE-BULB-245C

Cool white, 6000K

LE-BULB-245W

Warm white, 3000K

**ECOSTAR 3W & 4W CANDLE LAMP REPLACEMENT FOR ANY OLD CANDLE  
LAMP BAYONET AND SCREW FITTINGS AVAILABLE  
EQUIVALENT TO 30 WATT AND 40W OLD CANDLE BULBS**



**3W Candle Bulb**

The 3W and 4W LED Candle lamp is RoHS compliant and CE tested. The 3w and 4W Ecostar Candle lamp bulb is a new generation of long life, energy efficient lighting solutions.

It gives more than eight times the amount of light than the traditional incandescent lamp, with no infrared radiation.

Fast switching performance means these LED light bulbs instantly reach their highest brightness.

Very long service life which will still remain at 70% of their luminous flux after 50,000 working hours. They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar LED Bulb is the best sustainable choice.

**Specification Features Construction:**

Aluminium alloy heat sinking body. Glass cover. Dust resistant design.

Lamp base: E27 B22 B15

Lumen Output: 3W Up to 280 lumens .... 4W 310 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

Optics:180° projecting degree

Voltage:90~260V 50/60Hz Auto Sensing Power Supply

Wattage: 3W LED, 3.5W total power

Driver: Built-in high efficiency constant current power supply with EMI protection

Weight:0.07kg

Dimensions: 39mm in diameter x 135mm long

Operational Environment: -20°C to +45°C

Safety Certification: CE

Warranty: 2 years

**ORDERING INFORMATION for 3W and 4W bulbs Models and Specifications**

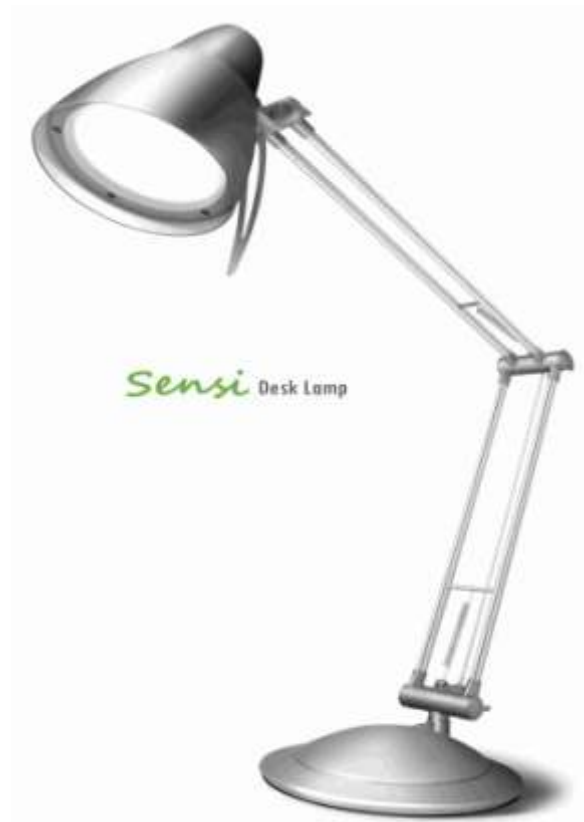
3W LE-CL045C Cool white, 6000K very bright light

3 W LE-CL045W Warm white, 3000K same as a normal bulb

4W LE-CL065C Cool white, 6000K very bright light

4 W LE-CL065W Warm white, 3000K same as a normal bulb

## **ECOSTAR "Sensi" DESK LAMP THE LATEST TECHNOLOGY THE BEST LIGHT FOR YOUR EYES 8W AND 24V**



The Sensi LED desk lamp gives 570 lux light output at 50 cm. It is the ideal lighting fixture for reading, writing etc. The driver is made with high quality components with CE, UL, and cUL certificates.

With the unique Omega Opt diffusion technology it gives a soft and bright light output without a harmful glare.

Fast switching performance means these LED desk lamps instantly reach their highest brightness and have a very long service life which will still remain at 70% of their luminous flux after 50,000 working hours.

They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar LED desk lamp is the best sustainable choice.

### **Specification Features**

Construction: Aluminium housing with painting and polished finishes. Omega Opt diffusion technology protects human eyes from ANY harmful glare.

Lumen Output: 720 lumens

Lamp life: 70% lumen maintenance at 50,000 hours

View angle: 150° degree

Voltage: 24V DC

Exterior UL listed power supply unit is included for 110-240V AC

Wattage: 8W

Driver: Exterior high efficiency constant current power supply. Power factor: 0.9

Weight: 2 kg

Dimensions: 1000mm (H) x 180mm (W) x 230mm (L)

Packing: Packed weight: 2.8 kg

Packing dimensions: 62 cm x 22.3 cm x 17.5 cm

Operational Environment: -35°C to +40°C

Safety Certification: CE, UL Listed

Warranty: 2 years

## ECOSTAR LED DESK LAMP 6W OUR LED TECHNOLOGY IN A DESK LAMP



Glare free, No UV radiation, Flickering free,  
Long lasting brightness

The Eco LED desk lamp gives 330 lux light output at 50 cm. It is the ideal lighting fixture for reading, writing etc. The driver is made with high quality components with CE, UL, cUL certificates.

The designed working life is 50,000 hours with 70% lumen maintenance. With the unique OmegaOpt diffusion technology it gives soft and bright light output without harmful glare. It is ideal lighting fixture for reading, writing etc.

They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar LED desk lamp is the best sustainable choice.

### Specification Features

Construction: Aluminium housing with painting and polished finishes. OmegaOpt diffusion technology protects human eyes from ANY harmful glare.

Lumen Output: 430 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

View angle: 150° degree

Voltage: 24V DC

Exterior UL listed power supply unit is included for 110-240V AC

Wattage: 6W

Weight: 1.5 kg

Dimensions: 490mm (H) x 180mm (W) x 230mm (L)

Packing: Packed weight: 2.3 kg

Packing dimensions: 55 cm x 23 cm x 18 cm

Operational Environment: -35°C to +40°C

Safety Certification: CE, UL Listed

Warranty: 2 years



## **ECOSTAR 3W TO 15W LED PAR 30 & PAR 38 LAMP REPLACEMENT FOR 15W TO 90W BULBS USING YOUR EXISTING FITTING NOT DIMMABLE**



High efficiency / high lumen package, RoHS compliant, CE tested

The E27 LED Lamps are a new generation of long life energy efficient light sources. It gives more than eight times the amount of light than the traditional halogen lamp, with no infrared radiation.

Fast switching performance means these LED light bulbs instantly reach their highest brightness and have a very long service life which will still remain at 70% of their luminous flux after 50,000 working hours.

They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar LED PAR 30 Bulb is the best sustainable choice.

### **TECHNICAL SPECIFICATIONS**

Construction: Die casting aluminium heat sinking body. Fire proof PC cover. Dust resistant design.

Lumen Output: Up to 540 lumens

Lamp life: 70% lumen maintenance at 50,000 hours

Optics: 15° projecting degree

Voltage: 90~260V 50/60Hz Auto Sensing Power Supply

Wattage: 6W LED, 8W total power

Optional Lens: 30° projecting degree

Driver: Built-in high efficiency constant current power supply with EMI protection

Weight: 0.315 kg

Dimensions: 90mm diameter x 118mm long

Operational Environment: -35°C to 40°C

Safety Certification: CE

Warranty: 2 years

### **ORDERING INFORMATION Models and Specifications**

There are a range of these PAR 30 and PAR 38 Bulbs in different watts

Please see the Equivalent chart and specifications at the back of the brochure



**MR 16 LED REPLACEMENT FOR YOUR HALOGEN BULB USING LESS THAN  
EIGHT TIMES THE POWER. CHANGE ONCE EVERY 10 TO 15 YEARS  
THERE ARE 5 DIFFERENT POWER OPTIONS 1W TO 6W**



High efficiency / high lumen package,  
RoHS compliant, CE tested

The MR16 4W LED Lamps are a new generation of long life energy efficient light sources. It gives more than eight times the amount of light than the traditional halogen lamp, with no infrared radiation.

Fast switching performance means these LED light bulbs instantly reach their highest brightness and have a very long service life which will still remain at 70% of their luminous flux after 50,000 working hours.

They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar MR 16 4W LED Bulb is the best sustainable choice.

**Specification Features:**

Construction: Aluminium alloy heat sinking body. Fire proof PC socket.

Lumen Output: Up to 380 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

Optics: 25° projecting degree

Voltage: 12V~24V Auto Sensing Power Supply

Wattage: 4W LED, 5 W total power

Optional Lens: Null

Driver: Built-in high efficiency constant current power supply with EMI protection

Weight: 0.041 kg

Dimensions: 50mm diameter x 64mm long

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

**ORDERING INFORMATION    Models and Specifications**

There are a range of these MR 16 in different watts

Please see the Equivalent chart and specifications at the back of the brochure

**GU 10 3W & 4W LED SPOT LAMP EQUIVALENT TO A 25 W AND 35 W  
HALOGEN LAMP A REPLACEMENT FOR YOUR EXISTING FITTING WILL  
LAST BETWEEN 10 TO 15 YEARS**



High efficiency / high lumen package, RoHS compliant, CE tested

The GU 10 LED Spot Lamp developed by our partners is a new generation of a long life energy efficient light source. It gives more than eight times the amount of light emitting from the traditional halogen lamp. There is no infrared radiation and these lamps have a very long service life, remaining at 70% of the luminous flux even after 50,000 working hours. This means that in a normal house using the lights 10 hours a day 356 days of the year you will not have to change the bulb for 14 years

We have developed fast switching performance, and the lamp instantly reaches the highest brightness and maximum light output unlike the traditional incandescent, halogen or ordinary energy-saving lamps which take some time to achieve the highest light output.

These LED lights do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the GU 10 LED Spot Lamp is the perfect choice for sustainable lighting.

**Specification Features**

Construction: Aluminium alloy heat sinking body. Fire proof PC socket.

Lumen Output: Up to 380 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

Optics: 25° projecting degree

Voltage: 200-265 VAC 50/60Hz

Wattage: 4W LED, 5 W total power equivalent to 35 watts in a normal halogen bulb

Optional Lens: 45°

Driver: Built-in high efficiency constant current power supply with EMI protection

Weight: 0.045 kg

Dimensions: 68 mm long and 50mm in diameter

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

**ORDERING INFORMATION    Models and Specifications**

There are a range of these GU 10 BULBS in different watts

Please see the Equivalent chart and specifications at the back of the brochure

**ECOSTAR DOWNLIGHT 3W LED SPOT LAMP EQUIVALENT TO A 25 W to 30W HALOGEN LAMP A REPLACEMENT FOR YOUR EXISTING FITTING THAT WILL LAST BETWEEN 10 TO 15 YEARS THIS IS A SELF CONTAINED UNIT**



- ✓ High efficiency
- ✓ No UV radiation
- ✓ Flickering free
- ✓ RoHS compliant
- ✓ CE tested

The 3W LED Down Light is a small recess fixture. It is perfect for ceiling installations. Combined with the bright and reliable Epistar LED chips the 3W LED Down Light is a well balanced keenly priced quality ceiling light. This unit fits into a recess in the ceiling just like a halogen bulb fitting. It is an integral unit. It connects straight to the mains and our price includes all fittings.

**Specification Features**

Construction: Aluminium alloy heat sinking body dust resistant design.

Lumen Output: Up to 230 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

View Angle: 30 degrees

Voltage: 90-260 VAC 50/60Hz

Wattage: 3W LED,

Driver: Exterior high efficiency constant current power supply Power Factor 0.9

Weight: 0.18 kg

Dimensions: 48 mm high and 90mm in diameter

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

LE-DL3X1C 6000K, 200-240V AC cool white

LE-DL3X1W 3000K, 200-240V AC warm white

**ECOSTAR DOWNLIGHT 5W LED SPOT LAMP EQUIVALENT TO A 40 WATT HALOGEN LAMP A REPLACEMENT FOR YOUR EXISTING FITTING THAT WILL LAST BETWEEN 10 TO 15 YEARS THIS IS A SELF CONTAINED UNIT**



- ✓ *High efficiency*
- ✓ *No UV radiation*
- ✓ *Flickering free*
- ✓ *RoHS compliant*
- ✓ *CE tested*

The 5W LED Down Light is a small recess fixture. It is perfect for ceiling installations. Combined with the bright and reliable Epistar LED chips the 3W LED Down Light is a well balanced keenly priced quality ceiling light. This unit fits into a recess in the ceiling just like a halogen bulb fitting. It is an integral unit. It connects straight to the mains and our price includes all fittings.

**Specification Features**

Construction: Aluminium alloy heat sinking body dust resistant design.

Lumen Output: Up to 370 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

View Angle: 30 degrees

Voltage: 90-260 VAC 50/60Hz

Wattage: 5W LED,

Driver: Exterior high efficiency constant current power supply Power Factor 0.9

Weight: 0.27 kg

Dimensions: 48 mm high and 90mm in diameter

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

LE-DL5X1C 6000K, 200-240VAC

LE-DL5X1W 3000K, 200-240VAC

## DIMMABLE LED CEILING DOWNLIGHT

**EOSTAR DIMMABLE DOWNLIGHT 6W LED SPOT LAMP EQUIVALENT TO A 60 WATT HALOGEN LAMP A REPLACEMENT FOR YOUR EXISTING FITTING THAT WILL LAST BETWEEN 10 TO 15 YEARS THIS IS A SELF CONTAINED UNIT**



- ✓ *High efficiency*
- ✓ *No UV radiation*
- ✓ *Flickering free*
- ✓ *RoHS compliant*
- ✓ *CE tested*

The 6W LED Sensi Down Light is a small recess fixture from the dimmable eco sensi range. It is perfect for ceiling installations. The sensi range includes the unique OmegaOpt diffusion technology and LED dimming system with patented Smart Energy Control. This unit gives a soft and bright light output with the lowest power consumption in the lighting industry. It connects straight to the mains and uses standard dimmer switches. Our price includes all drivers etc.

### Specification Features

Construction: Aluminium Housing. OmegaOpt diffusion technology which protects the human eyes from harmful glare

Lumen Output: Up to 370 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

View Angle: 150 degrees

Voltage: 200-260 VAC 50/60Hz

**Wattage: 0.8W to 6W (old halogen equivalent 5W to 60W)**

Driver: Exterior high efficiency constant current power supply Power Factor 0.9

Weight: 0.27 kg

Dimensions: 70 mm high and 105mm in diameter

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

LE-DL10 5CD	6000K, 200-240VAC	Use this white light to highlight pictures etc
LE-DL10 5WD	3000K, 200-240VAC	Use the warm light for general purpose



The Professional Range for commercial applications

### **TRACK SPOT 9W LED PROFESSIONAL SPOT LIGHTS FOR COMMERCIAL APPLICATIONS**



High lumen output, No UV radiation, Edison LED package, 2 years warranty

The Track Spot is a professional accent spot light made of high lumen Edison LEDs. It is ideal for commercial applications. It gives up to 630 lm light output with low power consumption. The designed working life is 50,000 hours with 70% lumen maintenance.

We have developed fast switching performance, and the lamp instantly reaches the highest brightness and maximum light output unlike the traditional incandescent or ordinary energy-saving lamps take some time to achieve the highest light output.

These LED lights do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the LED Track Spot Lamp is the superior choice among all the existing light sources available in the marketplace and meets all your sustainability requirements.



#### **Specification Features:**

Construction: Aluminium body with excellent heat sink.

Lumen Output: 630 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

Beam angle: 30° degree

Voltage: 200-265V AC

Wattage: 9W

Weight: 0.48 kg

Dimensions: 90mm diameter x 140mm long

Packing: Packed weight: 0.55 kg

Packing dimensions: 15 cm x 9 cm x 17.5 cm

Operational Environment: -35°C to +40°C

Safety Certification: CE, RoHS

Warranty: 2 years



# TRACK SPOT 7W

Model: LE-TS2-7X1C

Voltage: 100-265V / 50-60Hz

## Specification Features

Construction: Aluminium body with excellent heat sink.

Lumen Output: 490 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

Beam angle: 45° degree

Voltage: 100-265V AC

Wattage: 7W

Weight: 0.45kg

Dimensions: 180 mm ( H ) x 92 mm ( W ) x 160 mm ( L )

Operational Environment: -35 C to +40 C

Safety Certification: CD, RoHS

Warranty 2 years

DESCRIPTION: The Track Spot is a professional accent spot light made of high lumen LEDs. It is ideal for commercial applications. It gives up to 490 Lumen light output with low power consumption. The designed working life is 50,000 hours with a 70% lumen maintenance.

These spots will fit all European existing tracking

*High lumen output*

*No UV radiation*

*Epistar LED chip*

*2 years warranty*





## TRACK SPOT 12W

Model: LE-TS12-X1C

Voltage: 100-265V / 50-60Hz

### Specification Features

Construction: Aluminium body with excellent heat sink.

Lumen Output: 840 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

Beam angle: 45° degree

Voltage: 100-265V AC

Wattage: 12W

Weight: 0.8kg

Dimensions: 180 mm ( H ) x 92 mm ( W ) x 160 mm ( L )

Operational Environment: -35 C to +40 C

Safety Certification: CD, RoHS

Warranty 2 years

DESCRIPTION: The Track Spot is a professional accent spot light made of high lumen LEDs. It is ideal for commercial applications. It gives up to 840 Lumen light output with low power consumption. The designed working life is 50,000 hours with a 70% lumen maintenance.

These spots will fit all European existing tracking

*High lumen output*

*No UV radiation*

*Epistar LED chip*

*2 years warranty*



# TRACK SPOT 12W

Model: LE-TS2-7X1C

Voltage: 100-265V / 50-60Hz

## Specification Features

Construction: Aluminium body with excellent heat sink.

Lumen Output: 1260 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

Beam angle: 45° degree

Voltage: 100-265V AC

Wattage: 18W

Weight: 1.25kg

Dimensions: 180 mm ( H ) x 92 mm ( W ) x 160 mm ( L )

Operational Environment: -35 C to +40 C

Safety Certification: CD, RoHS

Warranty 2 years

DESCRIPTION: The Track Spot is a professional accent spot light made of high lumen LEDs. It is ideal for commercial applications. It gives up to 1260 Lumen light output with low power consumption. The designed working life is 50,000 hours with a 70% lumen maintenance.

These spots will fit all European existing tracking



*High lumen output*

*No UV radiation*

*Epistar LED chip*

*2 years warranty*



**ECOSTAR DIMMABLE 1.2W TO 16W (EQUIVALENT TO 12W TO 150W)  
LED DOWNLIGHTS EQUIVALENT TO 8W TO 100W NORMAL BULBS  
SAVE 90% ON YOUR ELECTRICITY LIGHTING**



High efficiency / high lumen package,  
RoHS compliant, CE tested

The ECOSTAR Sensi dimmable LED Downlight is a new member of the ECOSTAR Series. It works with most of the universal dimming switches in the market.

It gives a soft and bright light output with the lowest power consumption in the lighting industry today.



Fast switching performance means these LED light bulbs instantly reach their highest brightness and have a very long service life which will still remain at 70% of their luminous flux after 50,000 working hours.

They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar dimmable downlight is the best sustainable choice.

**Specification Features**

Construction: Metal housing with painted and polished finishes. Omega Opt diffusion technology protects the human eyes from any harmful glare.

Lumen Output: 1450 lumens (max.)

Lamp life : 70% lumen maintenance at 50,000 hours

View angle: 150° degree

Voltage: 110~260V 50/60Hz Auto Sensing Power Supply

Wattage: 1.2W-16W

Driver: Exterior dimmable high efficiency driver

Power factor: 0.9

Weight: 0.5 kg

Dimensions: 75 mm x 194mm diameter

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

**ORDERING INFORMATION    Models and Specifications**

Please see the Equivalent charts at the back of the brochure

## ECOSTAR 9W LED DOWNLIGHT EQUIVALENT TO 80W ORDINARY BULBS



High efficiency / high lumen package,  
RoHS compliant, CE tested

The 10W Ecostar Sensi LED Down Light is a small fixture rated 9W from the Sensi down light series. The Sensi series includes unique OmegaOpt diffusion technology, LED dimming system and patented Smart Energy control. It gives a soft and bright light output with the lowest power consumption in the lighting industry today.

Fast switching performance means these LED light bulbs instantly reach their highest brightness and have a very long service life which will still remain at 70% of their luminous flux after 50,000 working hours.

They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar dimmable downlight is the best sustainable choice.

### Specification Features

Construction: Die casting housing with painting and polished finishes. OmegaOpt diffusion technology protects human eyes from any harmful glare.

Lumen Output: 820 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

View angle: 150° degree

Voltage: 200~260V 50/60Hz Power Supply

Wattage: 10W

Driver: Exterior high efficiency constant current power supply. Power factor: 0.9

Auto dimming (Smart Energy model)

Weight: 0.39 kg

Dimensions: 75 mm high x 145mm in diameter

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

ORDERING INFORMATION    Models and Specifications

Please see the Equivalent charts at the back of the brochure

**ECOSTAR DIMMABLE 2W TO 28W (EQUIVALENT TO 20W TO 250W)  
LED DOWNLIGHTS EQUIVALENT TO 8W TO 100W NORMAL BULBS  
SAVE 90% ON YOUR ELECTRICITY LIGHTING**



High efficiency / high lumen package, RoHS compliant, CE tested

This shows the 28 W LED in an office. The 28W Downlight was developed after years of research and development and Ryder International is proud to announce the Sensi LED Downlights with cutting edge technologies.



The Sensi series includes unique OmegaOpt diffusion technology, LED dimming systems and patented Smart Energy controls. It gives a soft and bright light output with the lowest power consumption in the lighting industry available today. No flicker or eye sensitive damage lighting.

Fast switching performance means these LED light bulbs instantly reach their highest brightness and have a very long service life which will still remain at 70% of their luminous flux after 50,000 working hours.

They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar dimmable downlight is the best sustainable choice.

#### Specification Features

Construction: Die casting housing with painting and polished finishes. OmegaOpt diffusion technology protects human eyes from harmful glare.

Lumen Output: 2400 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

View angle: 150° degree

Voltage: 200~260V 50/60Hz Power Supply

Wattage: 2W to 28W

Driver: Exterior high efficiency constant current power supply. Power factor: 0.9

Auto dimming (Smart Energy model)

Weight: 0.6 kg

Dimensions: 225mm in diameter x 75mm long

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

**ORDERING INFORMATION** Models and Specifications

Please see the Equivalent charts at the back of the brochure

## **T8 31W LED TUBE LIGHT A DIRECT REPLACEMENT FOR THOSE UNFREINDLY FLICKERING FLOURESECNT TUBES**



High efficiency, No UV radiation, Flickering free, RoHS compliant, CE tested

The T8 LED Tube is a new generation of long life energy efficient light source. The high intensity shell is made from a pc material, which is environmentally friendly. A solid state, vibration resistant tube means it is not easily broken as there is no glass in the shell, which makes transportation easy. No UV, no flickering with a very short start time, saving 60% power consumption when compared with a fluorescent light.

These LED Tubes have a very long service life which will still remain at 70% of their luminous flux after 50,000 working hours.

They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar LED Tube is the best sustainable choice.

Construction: Aluminium alloy heat sinking body. Fire proof PC cover with transparent and ivory-white effect.

Lumen Output: Up to 3000 lumens (model: LD-T8-336SC)

Lamp life : 70% lumen maintenance at 50,000 hours

View angle: 180° degree

Voltage: 110~260V 50/60Hz Auto Sensing Power Supply

Wattage: 31W (model: LD-T8-336SC)

Driver: Built-in high efficiency constant current power supply. Efficiency: 85%.

Weight: 0.2 kg

Dimensions: 1200mm. 900mm, 600mm x26mm diameter

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

ORDERING INFORMATION    Models and Specifications

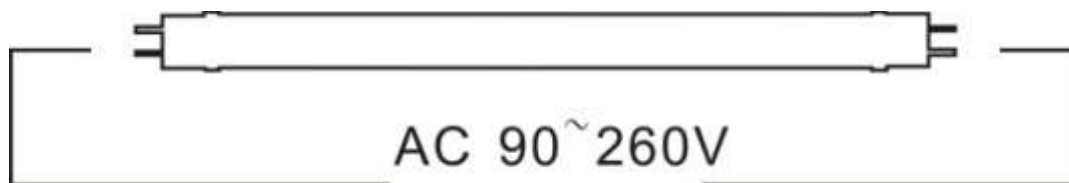
Please see the Equivalent charts at the back of the brochure



## T8 31W LED TUBE LIGHT FITTING INSTRUCTIONS AND SIZES

The T8 31W LED tubes come with a built-in driver within the unit. They do not use any traditional ballast and/or starters in the electrical circuit. The installation of the T8 LED lights is quite simple. The installation is very similar to a traditional light. The T8 LED tube works directly with a 90-260V AC supply which is the same as most current fluorescent tube installations. The ballast and starter in the fluorescent tube fitting to be replaced must be disconnected before you put the T8 LED tube in. Therefore you can use existing fittings easily and it is a very cheap retrofit.

Please refer to the instruction attached.



Models Specifications	Length of Tube(cm)	Lumen Output	Wattage(W)
LD-T8-144C Cool white, 6000K	60	1000	9W
LD-T8-144W Warm white, 3000K	60	860	9W
LD-T8-216C Cool white, 6000K	90	1400	14W
LD-T8-216W Warm white, 3000K	90	1180	14W
LD-T8-288C Cool white, 6000K	120	1870	17W
LD-T8-288W Warm white, 3000K	120	1580	17W
LD-T8-336SC Cool white, 6000K	150	3000	31W
LD-T8-336SW Warm white, 3000K	150	2690	31W

## FOR NEW INSTALLATIONS USE OUR T5 LED TUBES DETAILS BELOW





## T5 14W LED PACK



High efficiency, No UV radiation, Flickering free, RoHS compliant, CE tested

The T5 LED pack is a compact power saving light fixture with up-to-date LED technology. It reduces the cost of electricity by 50% when compared to a traditional T5 light tube and lasts about 50,000 hours without any visual light drop. It is ideal for all kinds of interior lighting applications.

They do not contain mercury like fluorescent lights and do not pollute the environment. Overall, the Ecostar LED Tube is the best sustainable choice.

### Specification Features

Construction: Aluminium alloy heat sinking body. Fire proof PC cover with transparent and ivory-white effect.

Lumen Output: Up to 1290 lumens

Lamp life : 70% lumen maintenance at 50,000 hours

View angle: 180° degree

Voltage: 200~260V 50/60Hz Auto Sensing Power Supply

Wattage: 14W

Driver: Built-in high efficiency constant current power supply. Efficiency: 85%.

Weight: 0.35 kg

Dimensions: 1200 mm (L) x 25mm (W) x 40mm (H)

Operational Environment: -35°C to +40°C

Safety Certification: CE

Warranty: 2 years

### ORDERING INFORMATION Specifications

Model	Length of Tube(cm)	Lumen Output	Wattage(W)
LD-T8-216CD Cool white, 6000K	120	1290	14W
LD-T8-216WD Warm white, 3000K	120	1080	14W

## ECOSTAR LED ARC BAR 30W LED



High efficiency driver, DMX 512 compatible, Solid construction for outdoor, IP 65 rated RoHS compliant and CE tested.

LED Arc Bar uses the latest high-efficiency power drivers, they are more energy efficient and environmental friendly than previous versions. This is a new generation product for architectural and landscape lighting applications. All the components are carefully selected and not only comply with CE norms, but have a very long working life. In normal working conditions it keeps 70% of its luminous flux after 30,000 working hours. The Arc Bar is driven and controlled by the Arc Power unit, an IP 65 rated power supply with built-in programs and a DMX 512 interface. Though the Arc Bar can work automatically, it can also be controlled by a standard DMX 512 controller. The Arc Bar is constructed with solid components. It can be installed outdoors with no problems. Overall, the Ecostar ARC BAR is the best sustainable choice.

**Construction:** The aluminium alloy body with excellent heat emission. High-efficient PMMA lens. Dust and water resistant IP65 construction design.

**Light Source:** 30x 1W LED, including 10x red, 10x green and 10 blue LEDs.

**Lumen Output:** 1350 lm

**Lamp Life:** 70% lumen maintenance at 30,000 hours

**Optics:** 15°projecting degree

**Voltage:** 90~260V Auto Sensing Power Supply by Arc Power (Model: LD-P100)

**Wattage:** 30W LED, 33W total power

**Control System:** Built-in the auto-efficient procedure, also can control through standard DMX 512 protocol (by Arc Power)

**Optional Lens:** 30°/45°/60° floodlight

**Driver:** By Arc Power (Model: LD-P100)

**Weight:** 2 KG

**Dimensions:** 816mm(L) x 61mm(W) x 85mm(H)

**Operational Environment:** -35°C to +40°C

**Protection Class:** IP 65

**Safety Certification:** CE

**Warranty:** 2 years

## ARC WASH 60W LED 60R RGB COLOUR MIXING UNIT, IP 65 RATED



High efficiency driver, DMX 512 compatible, Solid construction for outdoor, IP 65 rated RoHS compliant and CE tested.

The Arc Wash 60R is a RGB colour changer with AN infrared controller . It is easy and simple to set all the functions as well as the DMX address with the remote controller. It features a constant current power supply with 93% efficiency, professional water proof data and power connectors, built-in auto sequences, DMX 512 interface, selected ProLight high lumen LED packages. The strict quality control on all components and manufacture make the Arc Wash 60R an extraordinary colour changing wash light for architectural, landscape, and tourist applications. 30,000 hours lifespan makes this product the best in the market

It can be installed outdoors with no problems. Overall, the Ecostar ARC BAR is the best sustainable choice.

**Construction:** The aluminium alloy body with excellent heat emission. High-efficient PMMA lens. Dust and water resistant IP65 construction design.

**Light Source:** 60x 1W LEDs, including 20x red, 20x green and 20x blue LEDs.

**Lumen Output:** 2780 lm (1M 30° lens)

**Lamp Life:** 70% lumen maintenance at 30,000 hours

**Optics:** 30° projecting degree

**Voltage:** 90~260V 50/60 Hz

**Wattage:** 60W LED, 70W total power

**Control System:** Built-in sequences, master / slave function, DMX 512 protocol with BUFFER. All functions can be set using infrared remote control.

**Optional Lens:** 10°/45°/60° floodlight

**Driver:** High efficient constant current (93%)

**Weight:** 6 KG

**Dimensions:** 440mm(L) x 240mm(W) x 130mm(H)

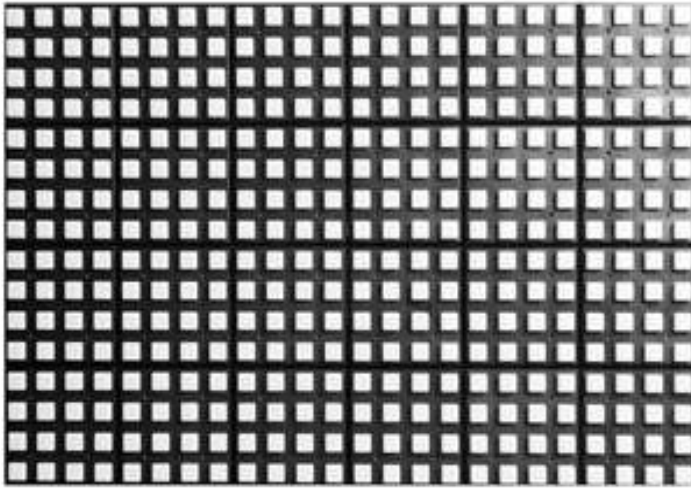
**Operational Environment:** Ta: -5°C to +40°C tc: 63°C

**Protection Class:** IP 65

**Safety Certification:** CE

**Warranty:** 2 years

## LED DISPLAY PANEL



High efficiency power supply, PC based video control, Fast installation design

The LED video panel displays flash effects from a PC based controller.

The High Efficient power driver and control boards are built-in. It is easy and quick to connect the panels together with LAN cables.

With a 50,000 hours life rating and 45W power consumption it is the most sustainable option available.

It is ideal for clubs, bars, restaurants and discotheques etc.

### SPECIFICATION FEATURES

Construction: Precision metal box with powder coating finish. Translucent square photomask for soft visual effect. Built-in power supply and unit control board.

Luminous Intensity: 2,000 cd/m<sup>2</sup>

Power Source: Every pixel is composed by 1 red, 1 green and 1 blue LED

Lamp Life: 70% lumen maintenance at 50,000 hours

Optics: 180° visual degree

Voltage: 200~240V 50/60Hz

Wattage: 45 W

Control System: T9 computerized video controlling system

Pixel Pitch: 50 mm

Colour Range: 16777216 real colours

Driver: Constant current power supply

Weight: 21KG

Dimensions: 120 cm(L)X 80 cm(W)X 10 cm(H)

Operational Environment: 0°C to +40°C

Safety Certification: CE

Warranty: 1 year

## ARC POWER CONTROLLER UNIT FOR OUTDOOR LED FIXTURES



High efficiency driver, DMX 512 compatible, Solid construction for outdoor, IP 65 rated

Arc Power is a controller with high efficient power supply unit for outdoor LED fixtures. It features aluminium die casting housing, golden plated water proof connectors, built-in auto sequences and USITT DMX 512 interfaces. It is an ideal powered DMX controller for both indoor and outdoor LED applications.

### SPECIFICATION FEATURES

Construction: The aluminium alloy body with excellent heat emission. Dust and water resistant IP65 construction design.

Voltage: 85-265V Auto Sensing Power Supply

Wattage: 60W max.

Control System: Built-in the auto sequences, or to be controlled by external USITT DMX 512 controller

Driver: High efficiency power supply

Weight: 1.1 KG

Dimensions: 232mm(L) x 130mm(W) x 50mm(H)

Operational Environment: 0°C to +40°C

Protection Class: IP 65

Safety Certification: CE

Warranty: 1 year

## DMX WRITER SOLID STATE CONSTRUCTION



LCD display, DMX 512 compatible,  
Solid construction with rubber  
protection, IP 44 rated

The DMX Writer LC-800 is a  
versatile tool for LED installations.

It can set to a DMX address for  
intelligent LED lighting fixtures.

It can also activate the built-in  
auto sequences of the lighting  
fixtures and display the status of  
the fixtures.

It is a MUST HAVE tool if you  
want to control the outdoor  
fixtures by a DMX 512 controller.

### SPECIFICATION FEATURES

Construction: Plastic housing with rubber protection.

Display: LCD with background lamination

Power Supply: Battery 9 VDC

Wattage: 200 mW (max.)

Weight: 0.45 kg

Protocol: USITT DMX 512

Dimensions: 172mm(L) x 105mm(W) x 50mm(H)

Operational Environment: 0°C to +40°C

Protection Class: IP 65

Safety Certification: CE

Warranty: 1 year

## CHROMASTER 12

High efficiency, 17 preset effects, DMX 512 protocol, RoHS compliant, CE tested. The Chromaster is an LED integrated controlling system with built-in effects and a 300W high-efficiency power driver.



It is equipped with 12 outputs which can be controlled separately. A Chromaster 12 can drive and control up to 360 pieces of X Chips.

The 17 built-in programs can run in stand alone, with or without music triggering. The Chromaster 12 can be controlled by an external DMX 512 controller. It can be controlled with 7 or 37 DMX channels. It meets perfectly different needs for regular applications as well as for high-end professional lighting designers.

### SECIFICATION FEATURES

Construction: Thicken metal frame, power-coating surface treatment with anti-rust.

Using dual fans of SUNON for heat emission, ensures stability for long-working.

Golden-plating power and data connectors are used for strong anti-oxidant.

Voltage: Input; 220V 50Hz

Output: 24 VDC

Maximum Wattage: 300 W

Control Mode: Built-in 17 kinds of auto-programs

Music control mode: Controlled by standard DMX512 controller

DMX 512 channels: 7 or 37(optional)

Driver System Built-in 300W power supply with high-efficiency

Weight: 3.5 KG

Dimensions: 501mm long x 185mm wide x 70mm high

Operational Environment: 0°C to +40°C

Safety Certification: CE

Warranty: 1 year

### ORDERING INFORMATION

LD-P360            200-240V 50/60Hz

LD-P360US       100-127V 50/60Hz



## QUANTUM 3000 LIGHTING FIXTURE



The Quantum 3000 is an intelligent lighting fixture from Ryder International. This LED-based moving-head washlight features:

Edison high-power emitters  
DMX control and stand-alone operation with scenes Programmed on fixture or captured via DMX. Onboard control panel and backlit LCD graphic display with RGBW colour mixing with CTC Smooth electronic dimming.

Electronic strobe with pulse effects  
630° pan and 270° tilt ranges  
8 bit and 16 bit DMX control modes

User's manual is available

### Specifications:

Physical Length 330 mm (13 in.) Width 229 mm (9 in.) Height 437 mm (17.2 in.)

Weight 9.6 kg (21.1 lbs.) excl. brackets

Dynamic Effects Colour mixing RGBW Red 0 - 100%, Green 0 - 100%, Blue 0 - 100% White 0 - 100%; Variable CTC Electronic dimming 0 - 100%, two dimming curve options for overall/individual RGB intensity Strobe effect Electronic, with pulse and random effects, Pan 630°, Tilt 270°, Adjustable pan/tilt and effects speed Optics Light source Edison high power emitters; Red 621-637 nm, Green 525-542 nm, Blue 445-461 nm, White 5600 K

Light Output: Max. RGBW in 7910 lux @ 3 M, Red 2394 lux @ 3 M, Green 1498 lux @ 3 M, Blue 2758 lux @ 3 M, White 1498 lux @ 3 M

Control and Programming: Control options DMX, stand-alone, master/slave, Control resolution 8- and 16-bit, DMX channels 13

Setting and addressing Control panel with backlit LCD display Protocol USITT DMX512/1990, Stand-alone programming Control panel with backlit graphic display

Construction: Colour: Black

Housing: High-impact flame-retardant thermoplastic

Protection rating: IP 20

Electrical: AC power 100-240 V, 50/60 Hz

Maximum total power consumption: 392 W

Main fuse: .6.3 AT (for use at 100-130 V nominal), 4 AT (for use at 200-240 V nominal) Standby power :28 W Thermal: Cooling Forced air

Maximum ambient temperature (Ta max) 40° C (104° F)

Minimum ambient temperature (Ta min) 5° C (41° F)

### Approvals

EU safety EN 60598-1, EN 60598-2-17

EU EMC EN 61000-3-2, EN 61000-3-3, EN 61000-6-2, EN 61000-6-4

## **X PAR HIGH EFFICIENCY DRIVER DMX 512 COMPATIBLE SOLID STATE OF THE ART CONSTRUCTION FOR OUTDOOR USE IP 65 RATED**



The X Par is a PAR light for outdoor applications with the highest standards in the industry. It features a constant current power supply with a 90% efficiency rating, professional water proofing of data and power connectors, built-in auto sequences, DMX 512 interface, selected Edison light sources and etc.

All components are carefully selected with strict quality control make the X Par an extraordinary PAR light for architectural, landscape, and tourist applications.

### **Construction:**

The aluminium alloy body with excellent heat emission. High-efficient PMMA lens. Dust and water resistant IP65 construction design.

Light Source: 36x 1W LED, including 12x red, 12x green and 12x blue LEDs.

Lumen Output: 2448 lm

Lamp Life: 70% lumen maintenance at 30,000 hours

Optics: 15° projecting degree

Voltage: 90-260V 50/60 Hz

Wattage: 36W LED, 60W total power

Control System: Built-in sequences, master / slave function, DMX 512 protocol

Optional Lens: 30°/45°/60° floodlight

Driver: High efficient (90%) power supply

Weight: 5.6 KG

Dimensions: 228mm x (L) x 250mm(W) x 362mm(H)

Operational Environment: 0°C to +40°C

Protection Class: IP 65

Safety Certification: CE

Warranty: 1 year

## LED ARC WASH II MODEL LD-AW70RGB



The LED Arc Wash II uses the latest power driver which is a high energy efficient and environmental friendly version.

This new generation is the perfect choice product for architectural lighting applications. All the components are selected very strictly, and not only comply with CE norms, but they also have a very long working life in a normal working environment.

It keeps 70% of its luminous flux after 30,000 working hours. Various control modes enable it to work independently, or you can have a master/slave function controlled by a standard DMX 512 controller. The Arc Wash II is constructed with solid components. It can be installed outdoor for years without any problems.

### Construction:

The aluminium alloy body has excellent heat emission. High-efficient PMMA lens.

Dust and water resistant IP65 construction design. Independent housing for driver.

Light Source: 54x LEDs, including 18x 1W red, 18x 3W green and 18x 1W blue LEDs.

Lumen Output: 2950 lm

Lamp life : 70% lumen maintenance at 50,000 hours

Optics: 60° degree

Voltage: 90~260V 50/60Hz Auto Sensing Power Supply

Wattage: 65W LED, 72W total power

Control System: Built-in the auto-efficient procedure 7 DMX 512 channels

Optional Lens: 15°/30°

Driver: Built-in high efficiency constant current power supply with EMI protection

Weight: 9 KG

Dimensions: 360MM(L) x 240MM(W) x 277MM(H)

Operational Environment: 0°C to +40°C

Protection Class: IP 65

Safety Certification: CE

Warranty: 2 years



The tables below show the LED products and the equivalent watts for incandescent bulbs, halogen bulbs and fluorescent tubes,

BULBS AND WATTS	EQUIVALENT WATTS	MODEL #
Eco Star Bulb <b>6W</b>	60 W	LE-BULB-105C
		LE-BULB-105W
Eco Star <b>3W</b>	25 W	LE-BULB-045C
		LE-BULB-045W
Ecostar Candle Lamp <b>3W</b>	25 W	LE-CL045C
		LE-CL045W
Eco Star Bulb <b>8W</b>	100 W	LE-BULB-145C
		LE-BULB-145W
Eco Star Bulb <b>13W</b>	150 W	LE-BULB-245C
		LE-BULB-245W
MR 16, 1X1 <b>1W</b>	8W	LE-MR16-1C/W
MR 16, 3X1 <b>3W</b>	20 W	LE-MR16-3X1C
		LE-MR16-3X1W
MR 16, 4X1 <b>4W</b>	25 W	LE-MR16-4X1C
		LE-MR16-4X1W
MR 16, 5X1 <b>5W</b>	30W	LE-MR16-5X1C
		LE-MR16-5X1W
MR 16 <b>6W</b>	30W	LE-MR16-3X2C
		LE-MR16-3X2W
PAR 16 <b>3W</b>	15W	LE-PAR16-3C
		LE-PAR16-3W
PAR 30 <b>7W</b>	40W	LE-PAR30-7X1C
		LE-PAR30-7X1W
PAR 38 <b>9W</b>	55W	LE-PAR38-9X1C
		LE-PAR38-9X1W
PAR 38 <b>12W</b>	70W	LE-PAR38-12X1C
		LE-PAR38-12X1W
PAR 38 <b>15W</b>	90W	LE-PAR38-15X1C
		LE-PAR38-15X1W
GU 10, SPOT <b>3W</b>	25W HALOGEN	LE-GU10-3X1C
		LE-GU10-3X1W
GU 10, SPOT <b>4W</b>	35W HALOGEN	LE-GU10-4X1C
		LE-GU10-4X1W

LAMPS +WATTS	EQUIVALENT WATTS	MODEL #
T8 LED TUBE, 60CM <b>9W</b>	20W FLUORESCENT	LE-T8-144CD
		LE-T8-144WD
T8 LED TUBE, 90CM <b>14W</b>	30W FLUORESCENT	LE-T8-216CD
		LE-T8-216WD
T8 LED TUBE, 120CM <b>18W</b>	40W FLUORESCENT	LE-T8-288CD
		LE-T8-288WD
T8 X-TUBE, 150CM <b>24W</b>	60W FLUORESCENT	LE-T8-360CD
		LE-T8-360WD
T5 LED TUBE, 120CM <b>14W</b>	28W FLOURESCENT	LE-T5-216CD
		LE-T5-216WD
T5 LED TUBE, 90CM <b>10W</b>	20W FLUORESCENT	LE-T5-168CD
		LE-T5-168WD
T5 LED TUBE, 60CM <b>7W</b>	14W FLOURESCENT	LE-T5-108CD
		LE-T5-108WD
T5 LED PACK, 120CM <b>14W</b>	28W FLOURESCENT	LE-T5-216CDB
		LE-T5-216WDB
T5 LED PACK, 90CM <b>10W</b>	20W FLUORESCENT	LE-T5-162CDB
		LE-T5-162WDB
T5 LED PACK, 60CM <b>7W</b>	14W FLOURESCENT	LE-T5-108CDB
		LE-T5-108WDB
Ecostar Desk Lamp <b>6W</b>	45W	LD-TL72CD
Ecostar Desk Lamp <b>9W</b>	75W	LD-TL120CD

**Save up to 90% on your electricity lighting bills. Go Green with our NEW LED lights using the latest technology. Retrofit by replacing your old light bulbs with LED's in your existing fittings. An 8w LED replaces a 100w bulb, get the cost of your LED bulb back in less than a year see below:**

### **LED Light Bulb Cost Analysis for one GU 10 replacement bulb**

A typical Halogen GU 10 bulb will last about 2000 hours and cost £1 each using 50W our 4W 6000K replacement will cost £9.91 and will save 46W. If your electricity cost is £0.12 p per kWh and you use the bulb 12 hours per day for 356 days it is 4272kWh hours so you would need to change a normal bulb twice. With our LED bulb you would not need to change it for 10 years.

Cost savings using our 4W replacements bulb without taking account of savings on maintenance and replacement costs would be=

1 x 50W halogen bulb 4272kWh = kWh electricity used =  $50 * 4272 / 1000 = 213$  kWh per year @ £0.12 per kWh = £25.63 cost per year

1 x 4W LED replacement bulb 4272kWh = kWh electricity used =  $4 * 4272 / 1000 = 17.09$  kWh per year @ £0.12 kWh = £2.05 **saving a huge £23.58 per bulb** per year plus no replacement and maintenance cost.

<b>DIMMABLE + WATTS</b>	<b>EQUIVALENT WATTS</b>	<b>MODEL #</b>
Ecostar Downlight <b>3W</b>	25W HALOGEN	LE-DL3X1C
		LE-DLX31W
Ecostar Downlight <b>5W</b>	40W HALOGEN	LE-DL5X1C
		LE-DL5X1W
Ecostar Downlight <b>6W</b>	60W	LE-DL105CD
		LE-DL105WD
Ecostar Downlight <b>9W</b>	70W	LE-DL126CD
		LE-DL126WD
Ecostar Downlight <b>16W</b>	150W	LE-DL240CD
		LE-DL240WD
		LE-DLD240CD
		LE-DLD240WD
Ecostar Downlight <b>28W</b>	250W	LE-DL400CD
		LE-DL400WD
		LE-DLD400CD
		LE-DLD400WD
<b>NEW AND REPLACEMENTS</b>	<b>EQUIVALENT WATTS</b>	<b>MODEL #</b>
Track Spot <b>7W</b>	40W	LE-TS7X1C
		LE-TS7X1W
Track Spot <b>7W</b>		LE-TS2-7X1C
WILL FIT EUROPEAN STANDARD TRACK WITH AN EARTH		LE-TS2-7X1W
Track Spot <b>12W</b>		LE-TS12X1C
WILL FIT EUROPEAN STANDARD TRACK WITH AN EARTH		LE-TS12X1W
Track Spot <b>18W</b>		LE-TS18X1C
WILL FIT EUROPEAN STANDARD TRACK WITH AN EARTH		LE-TS18X1W

These new LED lighting solutions will save more than 80% in lighting bills and help reduce the carbon footprint of any organisation that decides to replace and/or retrofit their current lights, be they incandescent, halogen or AR111 lamps. We have tried to concentrate on retrofit during these difficult times and have several options available for existing fittings. Our 6000K bulbs are a very bright white light, providing fantastic illumination. Buy direct and save, prices range from less than £4.00.

We provide a 2 year guarantee, 50,000 hours life plus savings of 80% to 90% on your energy costs This is the easiest and most costs effective way to reduce your carbon footprint and save money. A commercial organisation using existing bulb and tube lights where their lighting bill is say £24,000 per year will save about £20,000 per year, so the return on investment of replacing all the existing bulbs with retrofit LED lights should be less than 12 months.





Our Ecostar range of LED lighting uses the latest solid state chip technology with the most competitive pricing structure in the market. These energy efficient lighting solutions allow our clients to spend dramatically less on their energy bill while allowing a more comfortable and healthy environment for us and our future generations.

We carry a range of stock but some items will be special order and lead times will be between six to eight weeks for manufacture.

**Please call 01666 504015** or email: [sales@ryderinternational.com](mailto:sales@ryderinternational.com)

To buy direct over the internet or get a quote for large volume purchases go to:

Commercial: [www.ryderinternational.com](http://www.ryderinternational.com)

Retail: [www.cotswoldhomeandgardencompany.com](http://www.cotswoldhomeandgardencompany.com)