LED OYSTER PCB MODULE WITH LED DRIVER

1. Product name
LED OYSTER PCB MODULE AND LED DRIVER

2. Product description and application
The LED OYSTER PCB MODULE are used to replace circular florescent tubes. They are rated at 15W, 20W, 28W and can easily fit into existing fluorescent fittings.

The module includes LED PCB modules, LED drivers. Dimmable drivers are also available on request.

LED OYSTER MODULE

3. Features
- Long life (Warranty 2 year)
- UV free, harmless for paintings and antiques
- 50% energy saving
- No multiple shadow

4. Applications
- The luminaire is an excellent solutions for residential lightings.
- LED technology can be used in areas where UV ray or sparks need to be controlled or forbidden.
- The excellent solution for extended lighting, help decrease the cost of energy.

5. Optical characteristics

5.1 LED
LED quality: Epistar
LED type: SMD5670, LED viewing angle: 120 degrees
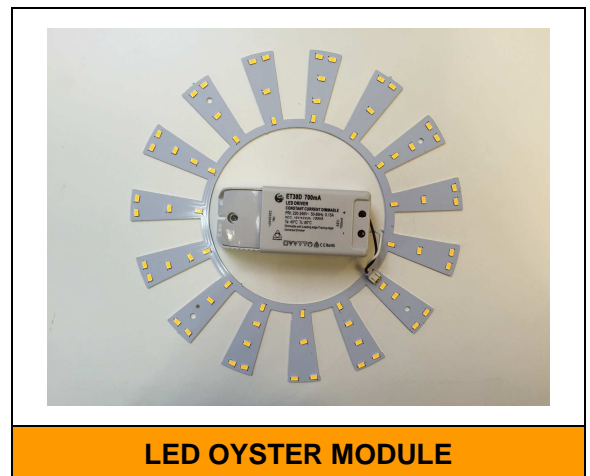LED color: Cool white (CW) 6000K
　　　　　Warm white (WW) 3000K
LED luminous flux: 120lm/w for CW
　　　　　　　　105lm/w for WW
CRI: >80%
LED lifespan: rated 50,000 hours under standard test conditions

5.2 LED Luminous flux

Series	Power	No. of LEDs	Lamp Lumen	
			Cool White	Warm white
UMODULE15W	15w	36 5670SMD	750 lm	650 lm
UMODULE20W	20w	48 5670SMD	1000 lm	850 lm
UMODULE28W	28w	66 5670SMD	1380 lm	1150 lm

5.3 LED life span

The life span of the LED is directly related to the solder point temperature of the LED. The higher the temperature of the LED, the shorter its life span.

T(℃)	Life(hours)	T(℃)	Life(hours)	T(℃)	Life(hours)
50	100,000	70	80,000	90	40,000
60	100,000	80	55,000	100	30,000
LED Lifespan					

Note: The table of LED solder temperature (T) against LED lifespan serves as a guide. Actual LED lifespan may vary. Data from LED manufacturer.

6. Electrical characteristics

Power: 15w, 20w, 28w

Input voltage: 220-240 VAC, 50/60Hz

Power efficiency: Up to 90%;

EMI: Not significant;

7. Physical characteristics and packaging

Product size: 15w φ177mm, 20w φ227mm, 28w φ267mm,

Net weight per LED OYS: ~0.2kg

Box size : 300mmx30mm

Storage temperature: -20℃ ~ +50℃

Working temperature: -20℃ ~ +50℃