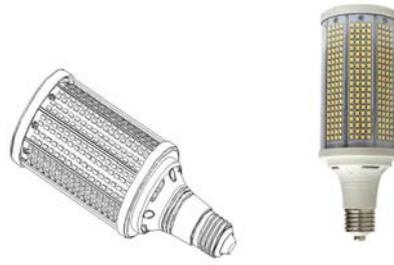


LED retrofit replacement for the HID



Product information

This replacement can be completed simply without costly upgrade. The robust lamp design with E27/E40 base ensures retrofitting and easy handle during installation. The upgraded fixture will deliver up to 80% energy saving and reduced operating cost driven by the increased life.

Specification Features

Long life

- 50,000 hours rated life (L70).
- Lasts 2-4x longer than typical HID lamps.
- Active cooling inside the lamp to ensure long life for this high power LED lamp.

High efficiency

- Outstanding energy efficiency up to 150 lm/w.
- A++ energy efficiency rating.
- Uses 80% less energy than HID Mercury or ~70% less energy compared to QMH lamps.

High Quality lighting effect

- High uniformity of light with optimized light distribution.
- Available with a CRI more than 80.
- High color consistency tolerance less than 6 steps.

Environmentally Conscious

- The lamp do not contain lead or Mercury.

Features

- LED HID lamp delivers up to 80% energy saving.
- High light output of 12 000 lumens.
- Available in 3000 4000 and 5000K.
- IP54 rating.
- Can be operated only on 90-305V Mains Voltage without HID ballast.
- Power needs to bypass rectifiers, flip flops and capacitors.

Replace the light source (Tradition)

- 35W: 80W/100W/125W HID Mercury; 100W/125W ML Mercury
50W/70W SON; 70W MHL
- 50W 100W/125W HPS; 175W HID Mercury
100W SON; 100W MHL
- 80W 100W/150W CMHL HPS; 175W/275W QHM
250W/400W HID Mercury;
500W ML Mercury

Accessories (Optional)

- E27/E26 conversion E40/E39 connector (Y/N) .
- Installation Guide and Warning Sticker.



Application



Specification summary

Rated Wattage (W)	Base	CCT (K)	Product Description	Rated Lumens (lm)	Life L70 (hrs)	CRI (Ra)	Energy Efficiency	Burn Position
35	E27/E26	3000	L:175*Ø70mm	5075	50,000	80	A++	universal
35	E27/E26	4000	L:175*Ø70mm	5250	50,000	80	A++	universal
35	E27/E26	5000	L:175*Ø70mm	5425	50,000	80	A++	universal
50	E27/E26	4000	L:195*Ø70mm	7250	50,000	80	A++	universal
50	E27/E26	3000	L:195*Ø70mm	7500	50,000	80	A++	universal
50	E27/E26	5000	L:195*Ø70mm	7750	50,000	80	A++	universal
80	E27/E26	3000	L:205*Ø70mm	11600	50,000	80	A++	universal
80	E27/E26	4000	L:205*Ø70mm	12000	50,000	80	A++	universal
80	E27/E26	5000	L:205*Ø70mm	12400	50,000	80	A++	universal

*T: Timer dimming. TC: Programmable dimming and microwave sensor.

*If you use E40/E39 lamp holder, add E27 to E40/E39 converter can be used.

Electrical and Photometric Characteristics

Ambient temperature range	-40°C to +55°C
Number of switching cycles	>25,000
Lumen maintenance at B50	>70%
Color consistency	<6 steps
Beam Angle	360°
Dimmable	No/Yes
Fixture rating	Indoor: open fixture with dry conditions Outdoor: enclosed fixture only
Starting time	<0.5sec
Material	6063 aluminum + PC
Lamp Voltage	90~305V
Lamp Power Factor	>0.95
Cooling	Active cooling with fan inside the lamp
Surge Voltage protection	6KV lamp only*

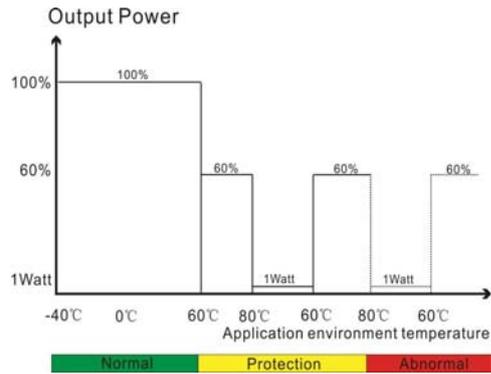
* Lamp's surge performance in fixture may vary with different fixture according to their design and condition.

Intelligent temperature protection function

• Working condition: -40°C to 55°C , Status Indication:

Environment temperature	Lamp status
$< -40^{\circ}\text{C}$	Can not turn on
-40°C ~ 55°C	Normal working
$\geq 60^{\circ}\text{C}$	Power change to 60% watt
$\geq 80^{\circ}\text{C}$	Shut down
Restored to $\leq 55^{\circ}\text{C}$	Resume normal working

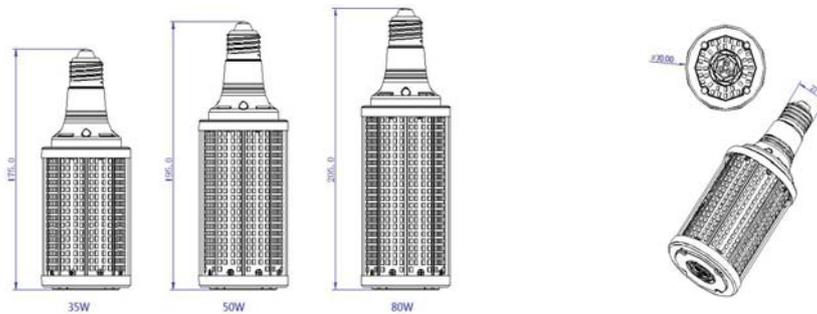
* Environment temperature: The air temperature around the lamp.



Mark:

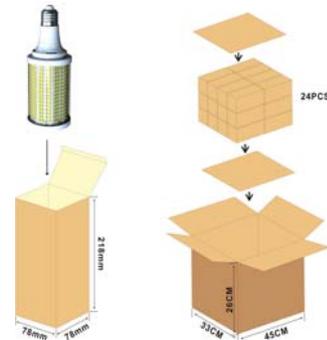
- Green area :Normal working.
- Yellow area:In protected status.
- Red area:Abnormal status.
- It must be handled in time, if the lamp in yellow or red status.

Dimensions (mm)



Packing

Watt	35W	50W	80W
Package Size(mm)	78*78*218	78*78*218	78*78*218
Net (kg) /Pcs	0.403	0.45	0.55
Gross (kg) /Pcs	0.48	0.52	0.62
Pick Up Qty	24	24	24
Carton Size (cm)	45*33*26	45*33*26	45*33*26
Net (kg) /Cot	9.672	10.8	13.2
Gross (kg) /Cot	11.52	12.48	14.88
CBM (m ³)	0.039	0.039	0.039



Operation and maintenance

- Store and use the lamps the same way as standard HID lamps.
- Lamps should be kept free from contamination.
- Switch off mains supply before installing/removing lamp.
- Good condition of the lamp-holder contacts is important to ensure proper operation of lamp.
- Use in Indoor open fixture with dry condition, Outdoor enclosed fixture only.
- Not for use in emergency lighting circuits.
- Re-wiring of fixture to bypass HID ballast, ignitor, capacitor is compulsory for this lamp.

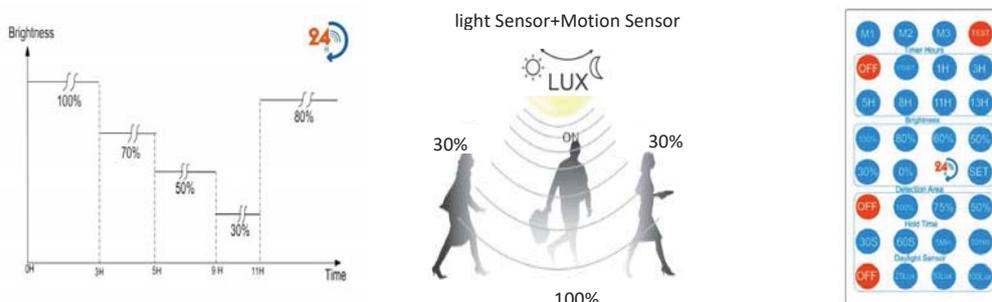
Energy Savings switching from HID to LED

Replacement Wattage	HID System Wattage	LED System Wattage	System Energy Savings
175W	210W	80W	130W
100W	120W	50W	70W
80W	100W	35W	65W

*This data source to take the case data has been implemented after finishing

Intelligent timer dimming and microwave induction (Expand)

- Built-in smart power, according to the time of day, set different brightness (0-100%).
- With an external microwave sensor, the perception within the set range of people or vehicles walking to ensure adequate brightness.
- Have RF remote control, according to their needs set curve dimming, sensor functions.
- Achieve 24H, automatic cycle.
- Second energy saving after replacing HID Intelligent timer dimming makes a double energy saving mode.
- The needs of the perfect development of other applications, such as constant illumination, fog sensors etc.



Test standards

CE Safety related standards:

IEC 62560:2012/A1:2015	Self-ballasted LED-lamps for general lighting services by voltage > 50 V – Safety specifications: With modification, refer to PPP 18044A:2017.
IEC 62471:2008	Photobiological safety of lamps and lamp systems.
IEC/TR 62778:2014	Photobiological safety of lamps and lamp systems – Part 2: Guidance on manufacturing requirements relating to non-laser optical radiation safety.
IEC 60598-1:2015	Luminaires - Part 1: General requirements and tests – Clause 12.4 and 12.5.
IEC 60061-1:2014	Lamp Caps and holders together with gauges for the control of interchangeability and safety.
EN 62493:2015	Assessment of lighting equipment related to human exposure to electromagnetic field.

EMC related standard:

EN 55015:2013	Limits and methods of measurement of radio disturbance characteristics of electrical lighting.
EN 61547:2009	Specification for equipment for general lighting purposes. EMC Immunity requirements.
EN 61000-3-2:2014	Limits for harmonic current emissions (equipment rated current <=16A).
EN 61000-3-3 :2013	Limitation of voltage fluctuations and flicker in low voltage supply systems (equipment rated current <=16A).

Note

*If statements are not covered, please contact us for explanation; the final interpretation reserves with us.

*Use this product everywhere to comply with local laws and regulations.

*The company's products have the quality assurance obligations, but in accordance with the document is not normal damage, not covered by the warranty.

*This product belongs to professional lighting field, must have a qualified professional staff to operate; non-professionals prohibited operation.