



**GBN ELECTRICAL
EQUIPMENT TECHNOLOGY CO., LTD.**



CATALOGUE GBN LED LIGHTING

GBN ELECTRICAL EQUIPMENT TECHNOLOGY CO., LTD.

<http://thietbidiengbn.vn>

- GBN Electrical Equipment Technology Co., Ltd. specializes in manufacturing and distributing high quality electrical appliances as well as providing solutions for lighting energy saving for effective organizations, businesses, households family ... etc. "Prestige, quality solutions for all projects" is the philosophy of operations and customer service of the company.
- As one of the pioneering companies in all kinds of energy saving lamp products in Vietnam, we manufacture and sales of lighting products with the goal of helping customers save energy lighting from 40% to 80% and produce light environment friendly, especially to protect eyesight and health of users. At the same time, we would like to advise manufacturing enterprises preparing the documentation for the national power saving program to receive financial support funds.
- With management system, employees are professional trained, we are committed to bringing our customers products of the highest quality, the best after-sales service.

HIGH FREQUENCY INDUCTION LAMPS ADVANTAGE

Advantage

- High quality, steady-flow operation.
- Multi-form, multifarious, power 50W to 200W
- Not have poisonous chemicals, not Calorific radiations because isn't to use filament.
- Quick start < 0,5s
- Working life: 60.000 hours
- Simple installation.
- Light attenuation few with compared metal halide lamp, sodium ...

Application

Retail showrooms, gymnasiums, warehouse, supermarket, factories etc.





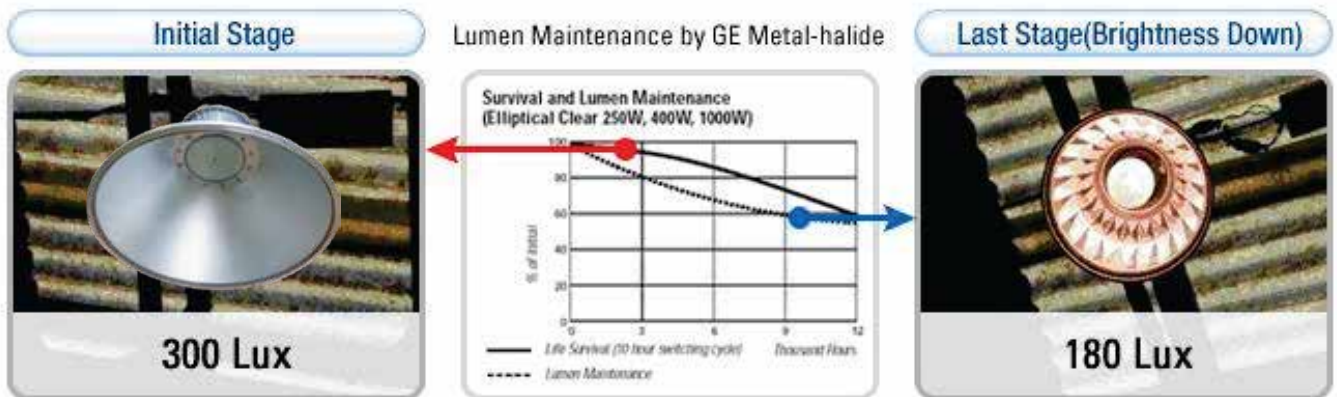
LED HIGH BAY LIGHT

1. Product Feature

1. LED lights are high luminous efficacy and good energy efficiency. Compared with traditional incandescent, LED has high luminous efficacy of the system, is up to 90% energy-saving, saving more than 50% of conventional energy-saving lamps.
2. Using high quality SMD LED as lighting source, high brightness, long lifespan, low heat producing, LEDs have a general life expectancy of 50,000 hours.
3. LED lights brighten up immediately without preheating, instant start lighting; because of solid state source, LED lights are resistant to shock, vibrations and external impacts, convenient transportation and installation, high safety.
4. Excellent color rendering index, very close to nature light, can afford comfortable lighting; wide rang optional color temperatures, can be satisfied different requirements of condition illumination.
5. Large viewing angle, strong light emitting direction, LEDs are easy to control the light, can improve luminarie efficiency.
6. LED is environment protecting, no flash, low glare, completely eliminates eyes' fatigue, and has no mercury pollution. LED is the best choice of eco-friendly light source.
7. **5 years warranty.**



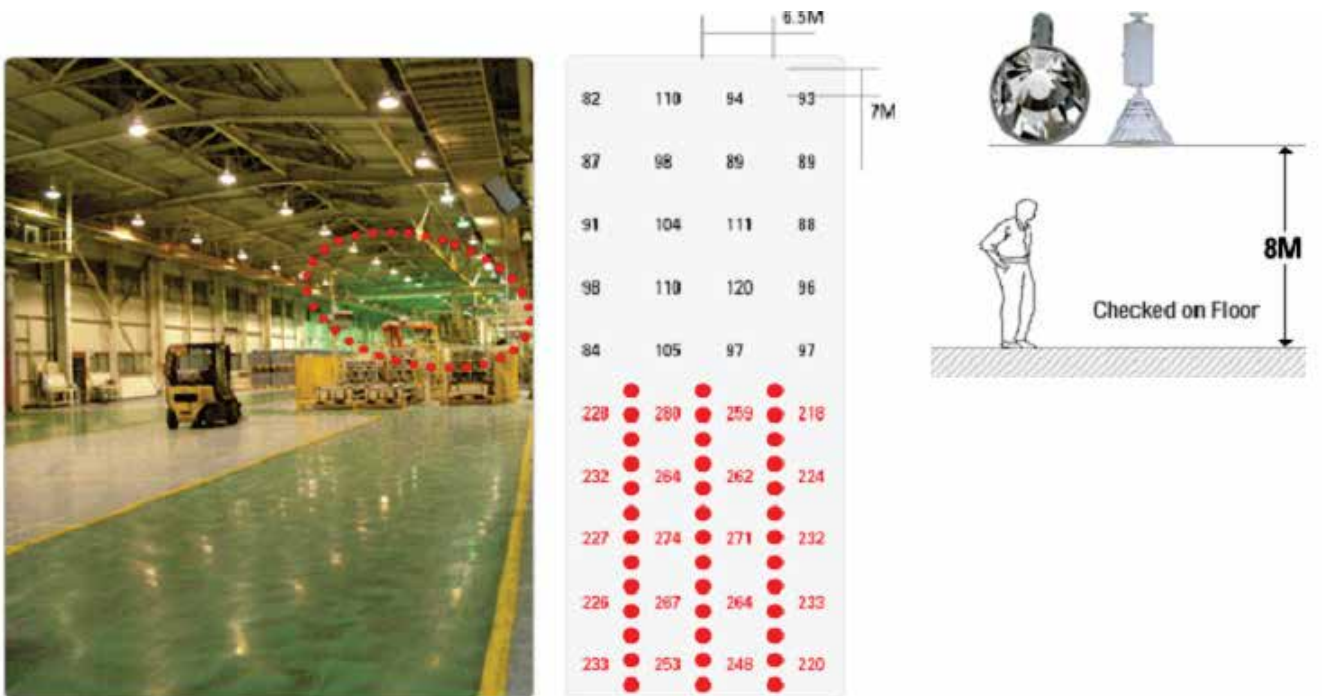
▪ Lumen maintenance and Illuminance Change of Metal Halide Lamp



1~1.5 year after installation, illuminance reduced by 60%
(however power consumption is the same as initial stage)

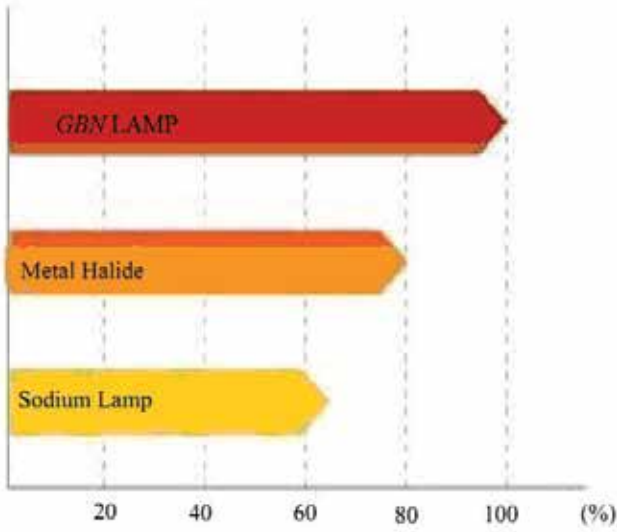
- The metal lamp has a point light source; thus it has light dead zone, appearing dimmer to the eye.
- The metal lamp generates heat to 120~230°C.
- The metal lamp's lumen maintenance sharply drops depending on the heat; hence the low energy efficiency property.

▪ Illuminance Chk

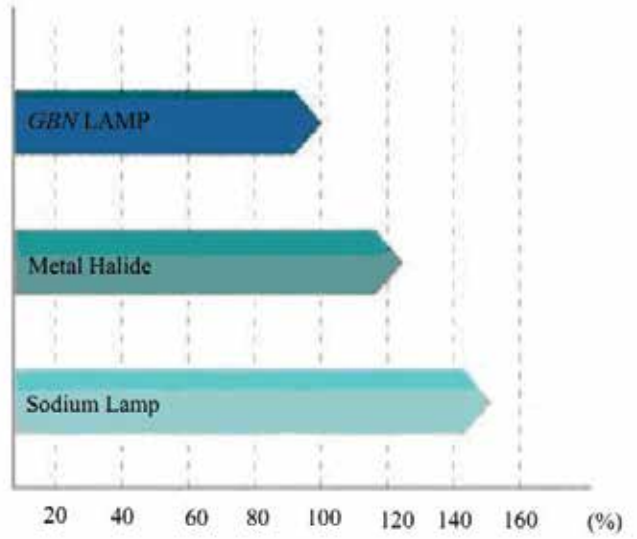


- Metal - halide 400W
- GBN LED High Bay Tight

▪ Ratio of Brightness



● Ratio of brightness felt given the same illuminance

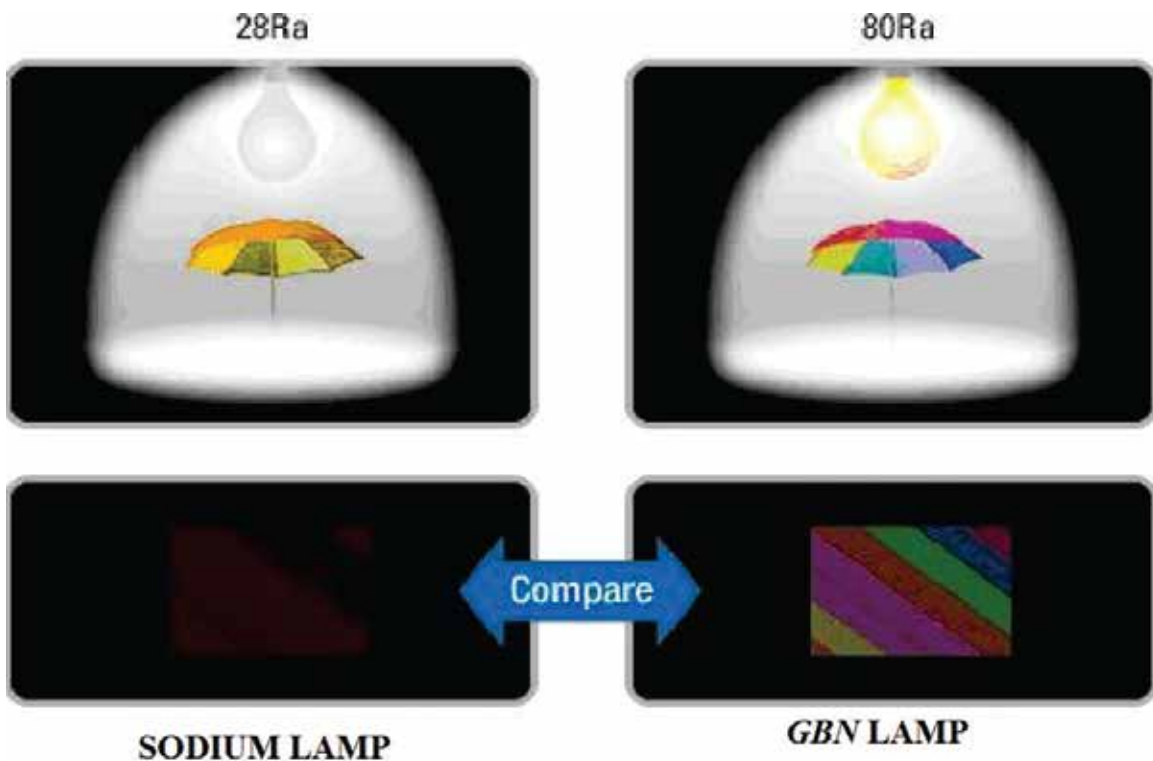


● Ratio of illuminance required for the same brightness

▶ Comparison of Color Rendering

- Excellent recognition even in low illuminance due to high color rendering.
- Improvement in work environment and worker efficiency through the quality improvement of illumination.

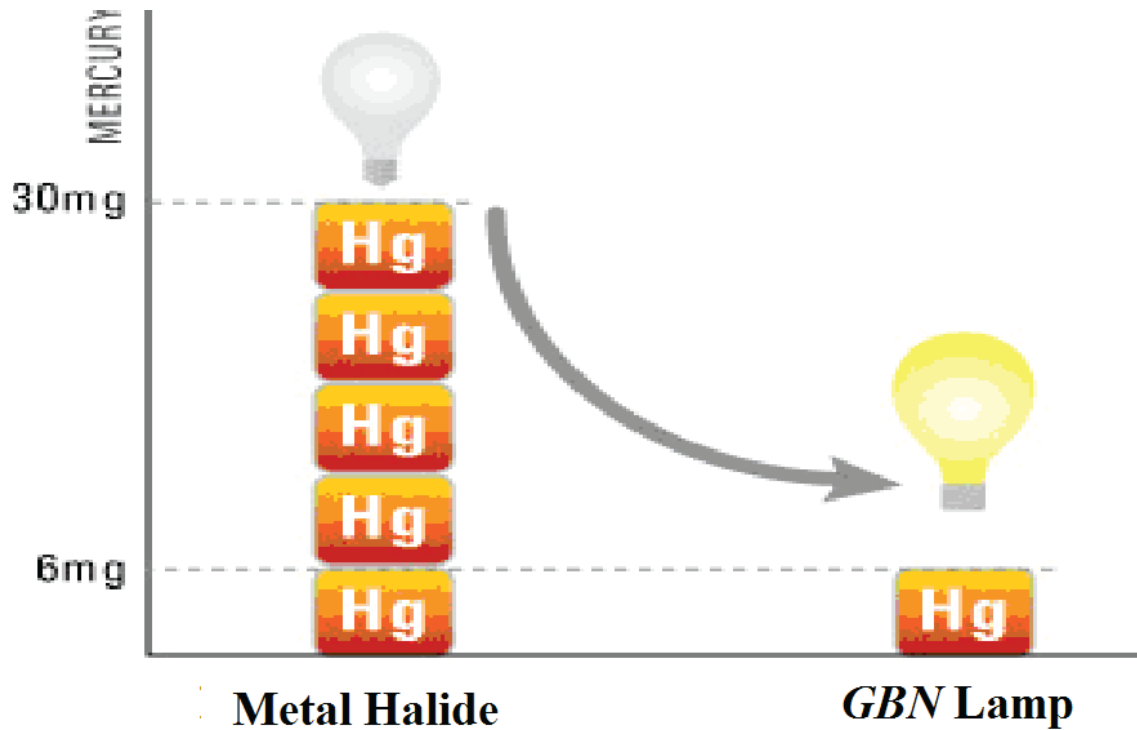
3 times higher than Sodium Lamp in Color representation (rendering)



Comparison of Harmful Environmental Waste

Because of a longer lifespan, use of materials like glass & mercury is reduced

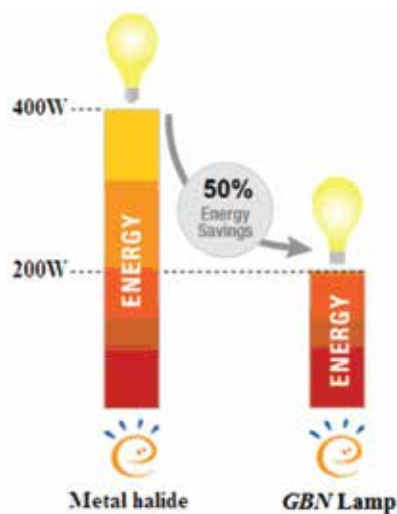
Contains 1/5 mercury compared with metal halide lamp



ENERGY SAVING

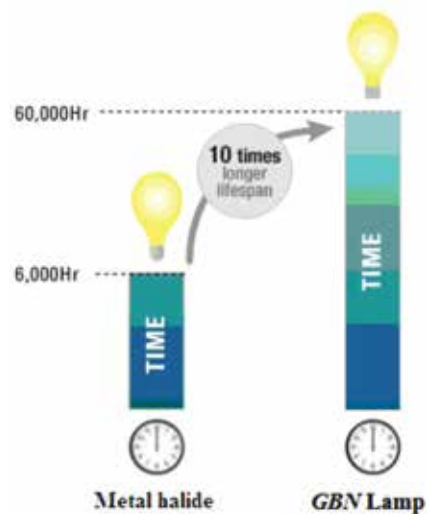
Comparison of Energy Savings

Maximum energy savings without change in illuminance.



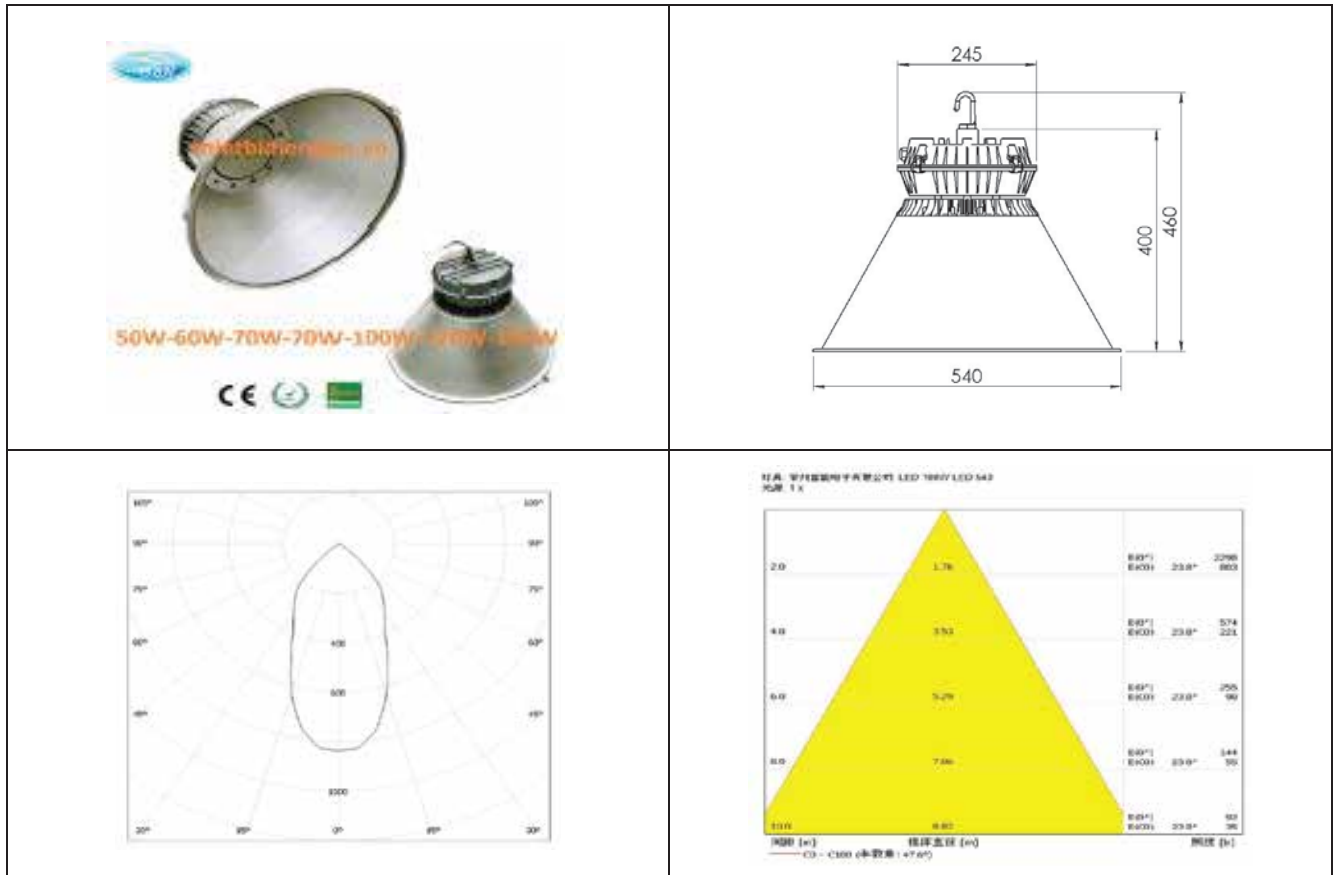
Comparison of Lifespan

No expenses for maintenance cost because of long lifespan



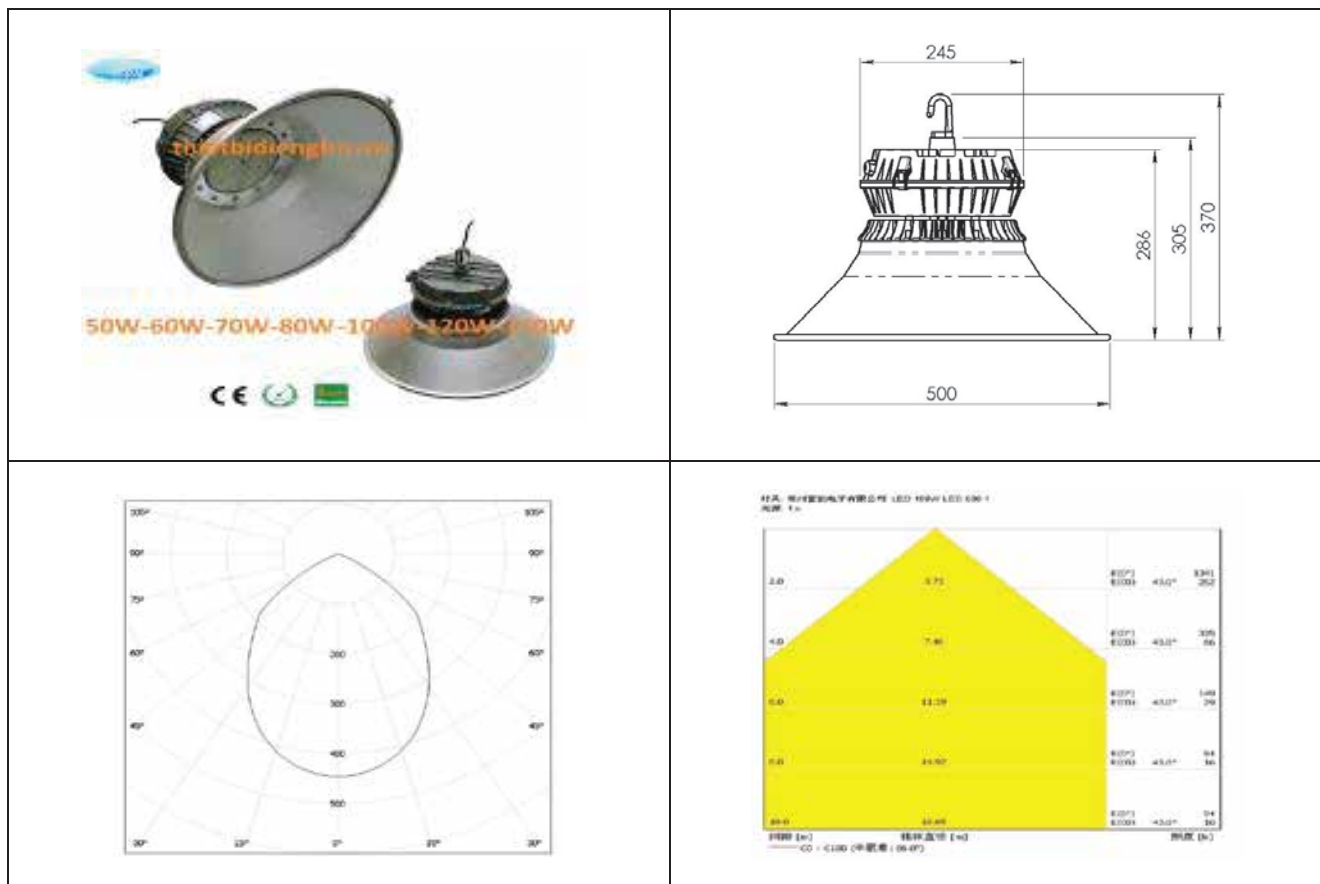
2. Product Specification

GBNLED- GC201- series



Model Number	GBNLED-GC201-70W	GBNLED-GC201-90W	GBNLED-GC201-110W	GBNLED-GC201-140W
Power	70W	90W	110W	140W
Drive Circuit	Inbuilt Isolated Drive	Inbuilt Isolated Drive	Inbuilt Isolated Drive	Inbuilt Isolated Drive
Led Chips	Osram	Osram	Osram	Osram
Input Voltage	85V~265V AC 50-60Hz			
Power Factor	>0.9			
Efficiency	>90%			
Environment Temperature	-20~50℃			
Color Temperature	2700K-3000K/6000K-6800K			
Luminous Flux	≥11,200 lm	≥14,400 lm	≥17,600 lm	≥22,400 lm
Lighting Effect	160 lm/w	160 lm/w	160 lm/w	160 lm/w
Irritation Angle	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Installation Height	≥10M			

GBNLED- GC202- series



Model Number	GBNLED GC202-70W	GBNLED-GC202-90W	GBNLED -GC202-110W	GBNLED -GC202-140W
Power	70W	90W	110W	140W
Drive Circuit	Inbuilt Isolated Drive	Inbuilt Isolated Drive	Inbuilt Isolated Drive	Inbuilt Isolated Drive
Led Chips	Osram	Osram	Osram	Osram
Input Voltage	85V~265V AC 50-60Hz			
Power Factor	>0.9			
Efficiency	>90%			
Environment Temperature	-20~50°C			
Color Temperature	2700K-3000K/6000K-6800K			
Luminous Flux	≥11,200 lm	≥14,400 lm	≥17,600 lm	≥22,400 lm
Lighting Effect	160 lm/w	160 lm/w	160 lm/w	160 lm/w
Irritation Angle	≥85°	≥85°	≥85°	≥85°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Installation Height	5~10M			



GBNLED-HB03 - series

LED HIGH BAY LIGHT

(Led Chips Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high quality SMD LED as light source, high brightness, long service life, low temperature production, LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, LED light is easy to control light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-HB03-100W	GBNLED-HB03-150W	GBNLED-HB03-200W
Wattage	100W	150W	200W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz		
Power factor	>0.9		
Performance	>90%		
Environment temperature	-20~50°C		
Color temperature	2700K-3000K/6000K-6800K		
Luminous flux	≥13,000lm	≥19,500 lm	≥26,000 lm
Luminescence efficiency	130 lm/w	130 lm/w	130 lm/w
Projection angle	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80
Size	D500*H230	D500*H260	D500*H290
Tightness	IP54		
Installation height	6M-10M		
Insurance	3 years – 5 years		





GBNLED-HB05H - series

LED HIGH BAY LIGHT (Led Chips Philips - Driver Meanwell)

Product Features

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- ◆ Using high quality SMD LED as light source, high brightness, long service life, low temperature production, LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, LED light is easy to control light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-HB05H-100W	GBNLED-HB05H-150W	GBNLED-HB05H-200W	GBNLED-HB05H-240W
Wattage	100W	150W	200W	240W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz			
Power factor	>0.9			
Performance	>90%			
Environment temperature	-20~50°C			
Color temperature	2700K-3000K/6000K-6800K			
Luminous flux	≥17,000lm	≥25,500 lm	≥34,000 lm	≥40,800 lm
Luminescence efficiency	170 lm/w	170 lm/w	170 lm/w	170 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Size	D290*120mm	D340*160mm	D386*190mm	D386*190mm
Tightness	IP65			
Installation height	6M-10M			
Insurance	5 years			



GBNLED-HB04 - series

LED HIGH BAY LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high quality SMD LED as light source, high brightness, long service life, low temperature production, LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, LED light is easy to control light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBN-LEDHB04-100W	GBN-LEDHB04-150W	GBN-LEDHB04-200W	GBN-LEDHB04-250W	GBN-LEDHB04-300W	GBN-LEDHB04-400W	GBN-LEDHB04-500W
Wattage	100W	150W	200W	250W	300W	400W	500W
Ballast circuit	Built-in circuit						
Output voltage	85V~265V AC 50-60Hz						
Power factor	>0.9						
Performance	>90%						
Environment temperature	-20~50°C						
Color temperature	2700K-3000K/6000K-6800K						
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65						
Installation height	6M-20M						
Insurance	3 years - 5 years						





GBNLED-ST01 - series

LED STREET LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the

LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.

◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.

◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-ST01-56W	GBNLED-ST01-70W	GBNLED-ST01-84W	GBNLED-ST01-98W	GBNLED-ST01-112W	GBNLED-ST01-126W
Wattage	56W	70W	84W	98W	112W	126W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz					
Power factor	>0.9					
Performance	>90%					
Environment temperature	-20~50°C					
Color temperature	2700K-3000K/6000K-6800K					
Luminous flux	≥7.840lm	≥9.800lm	≥11.760 lm	≥13.720 lm	≥15.680 lm	≥17.640 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	155°/ 100°	155°/ 100°	155°/ 100°	155°/ 100°	155°/ 100°	155°/ 100°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP66					
Size	440*304*80	560*304*80	560*304*80	620*304*80	680*304*80	680*304*80
Installation height	6m-15m					
Insurance	3 years - 5 years					





GBNLED-ST02 - series

LED STREET LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-ST02-50W	GBNLED-ST02-80W	GBNLED-ST02-100W	GBNLED-ST02-150W	GBNLED-ST02-200W
Wattage	50W	80W	100W	150W	200W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz				
Power factor	>0.9				
Performance	>90%				
Environment temperature	-20~50°C				
Color temperature	2700K-3000K/6000K-6800K				
Luminous flux	≥7.000lm	≥11.200lm	≥14.000 lm	≥21.000 lm	≥28,000 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	155°/ 100°	155°/ 100°	155°/ 100°	155°/ 100°	155°/ 100°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65				
Size	620*260*80	720*280*80	720*280*80	860*330*80	950*350*80
Installation height	6m-15m				
Insurance	3 years - 5 years				





GBNLED-ST03 - series

LED STREET LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-ST03-50W	GBNLED-ST03-60W	GBNLED-ST03-80W	GBNLED-ST03-100W	GBNLED-ST03-120W	GBNLED-ST03-150W
Wattage	50W	60W	80W	100W	120W	150W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz					
Power factor	>0.9					
Performance	>90%					
Environment temperature	-20~50°C					
Color temperature	2700K-3000K/6000K-6800K					
Luminous flux	≥7.000 lm	≥8.400 lm	≥11.20000lm	≥14.000lm	≥16.800 lm	≥21.000 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65					
Size	520*220*70	550*250*70	550*250*70	550*250*70	640*280*70	700*285*70
Installation height	6m-15m					
Insurance	3 years - 5 years					





GBNLED-ST04 - series

LED STREET LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBN-LED ST04-50W	GBN-LED ST04-100W	GBN-LED ST04-150W	GBN-LED ST04-200W	GBN-LED ST04-250W
Wattage	50W	100W	150W	200W	250W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz				
Power factor	>0.9				
Performance	>90%				
Environment temperature	-20~50°C				
Color temperature	2700K-3000K/6000K-6800K				
Luminous flux	≥7.000lm	≥11.200lm	≥14.000 lm	≥21.000 lm	≥28,000 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	155°/ 100°	155°/ 100°	155°/ 100°	155°/ 100°	155°/ 100°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65				
Size	380*310*75mm	460*310*75mm	540*310*75mm	620*310*75mm	540*310*75mm
Installation height	6m-15m				
Insurance	3 Years - 5 years				





GBNLED-FL01 - series

LED FLOOD LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-FL01-50W	GBNLED-FL01-100W	GBNLED-FL01-150W	GBNLED-FL01-200W
Wattage	50W	100W	150W	200W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz			
Power factor	>0.9			
Performance	>90%			
Environment temperature	-20~50°C			
Color temperature	2700K-3000K/6000K-6800K			
Luminous flux	≥7.000 lm	≥14,000lm	≥21.000 lm	≥28,000 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65			
Size	285*235*150	385*285*190	425*325*190	425*325*190
Installation height	6m-15m			
Insurance	3 years - 5 years			





GBNLED-FL02 - series

LED FLOOD LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
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- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-FL02-50W	GBNLED-FL02-100W	GBNLED-FL02-150W	GBNLED-FL02-200W
Wattage	50W	100W	150W	200W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz			
Power factor	>0.9			
Performance	>90%			
Environment temperature	-20~50°C			
Color temperature	2700K-3000K/6000K-6800K			
Luminous flux	≥7.000 lm	≥14,000lm	≥21.000 lm	≥28,000 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65			
Size	297*246*75	325*246*75	419*315*87	419*315*87
Installation height	6m-15m			
Insurance	3 years - 5 years			





GBNLED-FL03 - series

LED FLOOD LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.
- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color

temperature options, can be met the different requirements of lighting conditions.

- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-FL03-50W	GBNLED-FL03-100W	GBNLED-FL03-150W	GBNLED-FL03-200W
Wattage	50W	100W	150W	200W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz			
Power factor	>0.9			
Performance	>90%			
Environment temperature	-20~50°C			
Color temperature	2700K-3000K/6000K-6800K			
Luminous flux	≥7.000 lm	≥14,000lm	≥21.000 lm	≥28,000 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65			
Size	240*285*60	290*285*90	330*315*100	370*375*120
Installation height	6m-20m			
Insurance	3 years - 5 years			





GBNLED-FL04 - series

LED FLOOD LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.

- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.
- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-FL04-50W	GBNLED-FL04-100W	GBNLED-FL04-150W	GBNLED-FL04-200W	GBNLED-FL04-250W	GBNLED-FL04-300W	GBNLED-FL04-400W	GBNLED-FL04-500W
Wattage	50W	100W	150W	200W	250W	300W	400W	500W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz							
Power factor	>0.9							
Performance	>90%							
Environment temperature	-20~50°C							
Color temperature	2700K-3000K/6000K-6800K							
Luminous flux	7.000 lm	14.000 lm	21.000lm	≥28.000 lm	≥35.000l m	≥42.000 lm	≥56.,000 lm	≥70.000 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65							
Size	297*246*200	380*285*200	425*320*200	425*320*200	425*320*200	425*320*200	530*320*200	670*320*200
Installation height	6m-15m							
Insurance	3 years - 5 years							





GBNLED-FL07 - series

LED FLOOD LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-FL07-100W	GBNLED-FL07-150W	GBNLED-FL07-200W
Wattage	100W	150W	200W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz		
Power factor	>0.9		
Performance	>90%		
Environment temperature	-20~50°C		
Color temperature	2700K-3000K/6000K-6800K		
Luminous flux	14.000 lm	21.000lm	≥28.000 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w
Projection angle	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65		
Size	403*295*60	431*330*60	471*360*60
Installation height	6m-15m		
Insurance	3 years - 5 years		





GBNLED-FL09 - series

LED FLOOD LIGHT

(Led Chips Philips/Osram - Driver Meanwell)

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.

- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.
- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-FL09-50W	GBNLED-FL09-100W	GBNLED-FL09-150W	GBNLED-FL09-200W	GBNLED-FL09-250W	GBNLED-FL09-300W	GBNLED-FL09-400W	GBNLED-FL09-500W
Wattage	50W	100W	150W	200W	250W	300W	400W	500W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz							
Power factor	>0.9							
Performance	>90%							
Environment temperature	-20~50°C							
Color temperature	2700K-3000K/6000K-6800K							
Luminous flux	7.000 lm	14.000 lm	21.000lm	≥28.000 lm	≥35.000l m	≥42.000 lm	≥56.,000 lm	≥70.000 lm
Luminescence efficiency	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w	140 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP66							
Size	315*87*212	315*177*212	315*267*212	315*357*212	315*447*212	315*537*212	631*375*212	631*471*212
Installation height	6m-15m							
Insurance	3 years - 5 years							





GBNLED-T6F - series

T6 LED TUBE

Product Features

- ◆ LED have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.
- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy

to control LED light, can effectively improve luminarie.

◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBN-LEDT6F-0,6m	GBN-LEDT6F-1,2m
Wattage	9W	18W
Ballast circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz	
Power factor	>0.9	
Performance	>90%	
Environment temperature	-20~50°C	
Color temperature	2700K-3000K/6000K-6800K	
Luminous flux	1.080 lm	≥2.160 lm
Luminescence efficiency	120 lm/w	120 lm/w
Projection angle	≥50°	≥50°
CRI	Ra≥80	Ra≥80
Tightness	IP20	
Installation height	2m-6m	
Insurance	2 years	





GBNLED-T8F - series

T8 LED TUBE

Product Features

◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.

◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.

◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBN-LEDT8F-0,6m	GBN-LEDT8F-0,6m (180 độ)	GBN-LEDT8F-1,2m	GBN-LEDT8F-1,2m (180 độ)	GBN-LEDT8F-22W-1,2M	GBN-LEDT8F-36W-1,2M
Wattage	9W	9W	18W	18W	22W	36W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz					
Power factor	>0.9					
Performance	>90%					
Environment temperature	-20~50°C					
Color temperature	2700K-3000K/6000K-6800K					
Luminous flux	1.080 lm	1.080 lm	≥2.160 lm	≥2.160 lm	≥2.640lm	≥4.320lm
Luminescence efficiency	120 lm/w	120 lm/w	120 lm/w	120 lm/w	120 lm/w	120 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP20					
Installation height	2m-6m					
Insurance	2 years - 3 years					





GBNLED-T8CN - series

T8-TWIN LED TUBE LIGHT

Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.
- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-T8CN-1*9W	GBNLED-T8CN-2*9W	GBNLED-T8CN-1*18W	GBNLED-T8CN-2*18W
Wattage	9W	18W	18W	36W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz			
Power factor	>0.9			
Performance	>90%			
Environment temperature	-20~50°C			
Color temperature	2700K-3000K/6000K-6800K			
Luminous flux	≥1.080 lm	≥2.160 lm	≥2.160 lm	≥4.320 lm
Luminescence efficiency	120 lm/w	120 lm/w	120 lm/w	120 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Size	618*120*60	618*160*64	1228*120*60	1228*160*64
Tightness	IP20			
Installation height	2M - 10M			
Insurance	2 years - 3 years			





GBNLED-T8CT - series

WATERPROOF T8 LED TUBE

Product Features

◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.

◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.

◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-T8CT-1*9W	GBNLED-T8CT-2*9W	GBNLED-T8CT-1*18W	GBNLED-T8CT-2*18W
Wattage	9W	18W	18W	36W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz			
Power factor	>0.9			
Performance	>90%			
Environment temperature	-20~50°C			
Color temperature	2700K-3000K/6000K-6800K			
Luminous flux	≥1.080 lm	≥2.160 lm	≥2.160 lm	≥4.320 lm
Luminescence efficiency	120 lm/w	120 lm/w	120 lm/w	120 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP65			
Installation height	2M - 6M			
Insurance	2 years - 3 years			





GBNLED-T8V - series

T8V-TWIN LED TUBE LIGHT

Product Features

◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.

◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.

◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, easy to control LED light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Product code	GBNLED-T8V-1*9W	GBNLED-T8V-2*9W	GBNLED-T8V-1*18W	GBNLED-T8V-2*18W
Wattage	9W	18W	18W	36W
Ballast circuit	Built-in circuit	Built-in circuit	Built-in circuit	Built-in circuit
Output voltage	85V~265V AC 50-60Hz			
Power factor	>0.9			
Performance	>90%			
Environment temperature	-20~50°C			
Color temperature	2700K-3000K/6000K-6800K			
Luminous flux	≥1.080 lm	≥2.160 lm	≥2.160 lm	≥4.320 lm
Luminescence efficiency	120 lm/w	120 lm/w	120 lm/w	120 lm/w
Projection angle	≥50°	≥50°	≥50°	≥50°
CRI	Ra≥80	Ra≥80	Ra≥80	Ra≥80
Tightness	IP20			
Installation height	2M - 6M			
Insurance	2 years - 3 years			





GBN-LEDCN01 - series

(Explosion-proof LED (Osram Chip- Driver Meanwell) Product Features

- ◆ LED have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, LED light easy to control light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Application: Lighting in environments with a high risk of fire and explosion such as: gas stations, petrol and oil storage stations, chemical storage rooms, document storage rooms.....

- ◆ Lighting in harsh environments such as: coal mines, mineral mines, oil and gas fields, chemical plants

GBN Explosion Proof LEDs are specially designed to replace conventional lighting in a wide range of Hazardous Area applications, both indoor and outdoor. High luminous flux, instantaneous illumination, light weight design and flexible mounting options make it ideal for oil fields, chemical industry, steel industry, power, port, oil and gas applications for ATEX and IECEx certificates: group IIA, IIB, IIC; Zone 1, Zone2; Region 21, Region 22; Temperature Class: T1 to T6 Field Hazardous Area Area.

Model	GBN-LEDCN01-50W	GBN-LEDCN01-100W	GBN-LEDCN01-150W	GBN-LEDCN01-200W
Power (W)	50	100	150	200
Luminescence efficiency	140lm/w			
Color temperature	3000-6500K			
CRI	Ra>85			
Input voltage	100-240VAC, 50-60Hz			
Ex Mark	II 2G Ex d IIC Gb			
Anti-corrosion grade	WF2			
Tightness	IP66			
Environment temperature	T1-T6			
Dimensions (mm)	235*120mm	300*120mm	410*120mm	435*190mm
Insurance	3 Years - 5 years			





GBNLED 810 - series

(Explosion-proof LED (CREE Chip-Driver Meanwell) Product Features

- ◆ LEDs have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.
- ◆ Excellent color rendering index, very close to natural

light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.

- ◆ Large viewing angle, strong light emitting direction, LED light easy to control light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

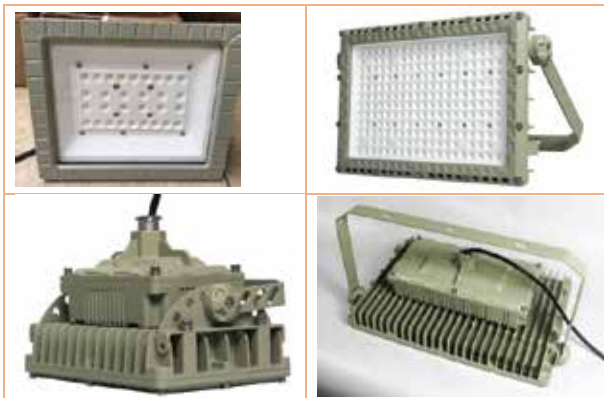
Application: Lighting in environments with a high risk of fire and explosion such as: gas stations, petrol and oil storage stations, chemical storage rooms, document storage rooms.....

- ◆ Lighting in harsh environments such as: coal mines, mineral mines, oil and gas fields, chemical plants

GBN Explosion Proof LEDs are specially designed to replace conventional lighting in a wide range of Hazardous Area applications, both indoor and outdoor. High luminous flux, instantaneous illumination, light weight design and flexible mounting options make it ideal for oil fields, chemical industry, steel industry, power, port, oil and gas applications for ATEX and IECEx certificates: group IIA, IIB, IIC; Zone 1, Zone2; Region 21, Region 22; Temperature Class: T1 to T6 Field Hazardous Area Area.

Model	GBNLED-810-50W	GBNLED-810-100W	GBNLED-810-150W	GBNLED-810-200W
Power (W)				
Luminescence efficiency	140lm/w			
Color temperature	3000-6500K			
CRI	Ra>85			
Input voltage	100-240VAC, 50-60Hz			
Ex Mark	II 2G Ex d IIC Gb			
Anti-corrosion grade	WF2			
Tightness	IP66			
Environment temperature	T1-T6			
Weight (kg)	6kg	8kg	9kg	9kg
Dimensions (mm)	270*270*170	320*320*170	360*360*170	360*360*170
Insurance	3 years - 5 years			





GBNLED-970 - series

(Explosion-proof LED (CREE Chip-Driver Meanwell) Product Features

- ◆ LED have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start

lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, LED light easy to control light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Application: Lighting in environments with a high risk of fire and explosion such as: gas stations, petrol and oil storage stations, chemical storage rooms, document storage rooms.....

- ◆ Lighting in harsh environments such as: coal mines, mineral mines, oil and gas fields, chemical plants
- GBN Explosion Proof LEDs are specially designed to replace conventional lighting in a wide range of Hazardous Area applications, both indoor and outdoor. High luminous flux, instantaneous illumination, light weight design and flexible mounting options make it ideal for oil fields, chemical industry, steel industry, power, port, oil and gas applications for ATEX and IECEx certificates: group IIA, IIB, IIC; Zone 1, Zone2; Region 21, Region 22; Temperature Class: T1 to T6 Field Hazardous Area Area.

Model	GBNLED-970-50W	GBNLED-970-100W	GBNLED-970-150W
Power (W)	50W	100W	150W
Luminescence efficiency	140lm/w		
Color temperature	3000-6500K		
CRI	Ra>85		
Input voltage	100-240VAC, 50-60Hz		
Ex Mark	II 2G Ex d IIC Gb		
Anti-corrosion grade	WF2		
Tightness	IP66		
Environment temperature	T1 - T6		
Weight (kg)	5.4	8.1	11.9
Dimensions (mm)	264*180*126	344*240*126	418*257*130
Insurance	3 years - 5 years		





GBNLED-T8PN - series

Explosion-proof T8 LED TUBE

Product Features

- ◆ LED have high lighting efficiency and are energy efficient. Compared with traditional light bulbs, LED lights have the system's high lighting efficiency, saving up to 90% of energy, saving more than 50% of traditional energy-saving bulbs.
- ◆ Using high-quality SMD LED as the light source, high brightness, long service life, low temperature production, the LED lamp has an overall lifespan of 50,000 hours.
- ◆ LED lights up instantly without warming up, start lighting immediately; Because of the solid state source, the LED is resistant to shock, vibration and external impact, convenient transportation and installation, and high safety.

- ◆ Excellent color rendering index, very close to natural light, can comfortably light enough; Wide range of color temperature options, can be met the different requirements of lighting conditions.
- ◆ Large viewing angle, strong light emitting direction, LED light easy to control light, can effectively improve luminarie.
- ◆ LED is environmental protection, no flash, low flicker, completely eliminate eye fatigue, and no mercury pollution. LED is the best choice of eco-friendly light source.

Application: Lighting in environments with a high risk of fire and explosion such as: gas stations, petrol and oil storage stations, chemical storage rooms, document storage rooms.....

- ◆ Lighting in harsh environments such as: coal mines, mineral mines, oil and gas fields, chemical plants

GBN Explosion Proof LEDs are specially designed to replace conventional lighting in a wide range of Hazardous Area applications, both indoor and outdoor. High luminous flux, instantaneous illumination, light weight design and flexible mounting options make it ideal for oil fields, chemical industry, steel industry, power, port, oil and gas applications for ATEX and IECEx certificates: group IIA, IIB, IIC; Zone 1, Zone2; Region 21, Region 22; Temperature Class: T1 to T6 Field Hazardous Area Area.

Model	GBNLED-T8PN-1*9W	GBNLED-T8PN-1*18W	GBNLED-T8PN-2*9W	GBNLED-T8PN-2*18W
Power (W)	9W	18W	18W	36W
Luminescence efficiency	120lm/w			
Color temperature	3000-6500K			
CRI	Ra>85			
Input voltage	100-240VAC, 50-60Hz			
Ex Mark	II 2G Ex d IIC Gb			
Anti-corrosion grade	WF2			
Tightness	IP66			
Environment temperature	T4 – T6			
Dimensions (mm)	710*145	1350*145	710*210	1350*210
Insurance	3 years			




EXPLOSION PROOF EMERGENCY LIGHT



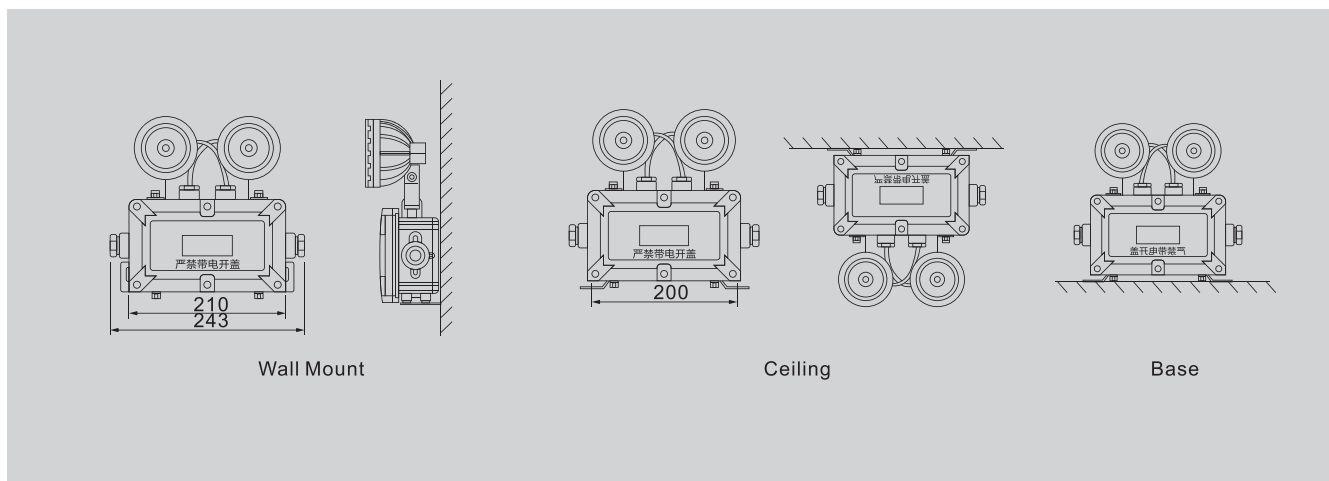
■ Features:

- Zone 1&2, Zone 21&22
- Built-in maintenance-free battery pack, the battery will be charged automatically when power is supply. And it will be in emergency light when the power fails.
- The lamp head can be rotated around 270° from top to bottom, with wide lighting range.
- Easy to install
- LED indicator of main, charge, fault to easy to know the status of the light.
- Self inspections annual month. And test button for testing any time for user.
- Equipped with an explosion-proof buzzer with a 65dB-85dB voice. When the product is in fault status, the buzzer will work 1-3s every minute to remind the user to maintain the product.

Technical Parameters

Type	GBN
European (ATEX) 	CE 1282Ex II 2G Ex d e IIC Gb
Gas and Dust	CE 1282Ex II 2D Ex tb Db
IP Degree	IP66
Input voltage	220VAC, 50-60Hz
Power consumption [W]	2*3
Back-up Battery	>120min
Entries	G 3/4" (suitable for Φ10mm-Φ14mm cable); NPT3/4" is optional
Size [mm]	243*570*55
Weight [kg]	2.6
Mounting Styles	Ceiling; Wall; Base Mount

Dimension & Installation [mm]



EXPLOSION PROOF EXIT SIGN

■ Features:

- Zone 1&2, Zone 21&22
- Die-cast aluminum body with baked epoxy powder coat finish for durability and corrosion resistance
- Ultra-bright LED light source, service life is up to 50,000 hours
- Designed with test buttons, convenient for regularly maintenance
- The light fitting is designed with a main power indicator, failure and charging indicator, to the using status
- Equipped with an explosion-proof buzzer with a 65dB-85dB voice. When the product is in fault status, the buzzer will work 1-3s every minute to remind the user to maintain the product.



Technical Parameters

Type	GBN
European (ATEX)	CE 1282Ex II 2G Ex d e IIC Gb
Gas and Dust	CE 1282Ex II 2D Ex tb Db
IP Degree	IP66
Input voltage	220VAC, 50-60Hz
Power consumption [W]	3
Back-up Battery	>120min
Entries	G 3/4" (suitable for Φ10mm-Φ14mm cable); NPT3/4" is optional
Size [mm]	166*375*65
Weight [kg]	3.25
Mounting Styles	Ceiling; Wall; Base Mount

Dimension & Installation [mm]



GBN-LD- series

Material: Aluminum
 Lamp Bead: Bridgelux 3030 130-140lm/W
 Solar panel: High efficiency polycrystalline silicon panel
 Battery: Lithium iron phosphate battery
 Working temperature: 10— +60
 Charging time: 6-7 hours under strong sunlight
 Installation size: 8-9m
 Battery life in rainy days: 5-8 days
 3 year warranty
 Irradiation area: 300 ~ 480 m² Control method:
 Light control + time control + remote control

Product code	GBN-LD-L1	GBN-LD-L2	GBN-LD-L3	GBN-LD-L4
Wattage	60	80	100	150
Lamp bead	3030-60pcs	3030-80pcs	3030-120pcs	5054-120pcs
Solar panel	6V70W	6V80W	6V100W	6V150W
battery specs	3.2V70AH	3.2V70AH	3.7V100AH	3.7V120AH
Lamp size	600*250*100mm	600*250*100mm	600*250*100mm	600*250*100mm
(mm) panel size	670*690*30mm	670*810*30mm	1020*670*30mm	1020*670*30mm



GBN-LF- series

1. Material: cast aluminum
2. Solar panels: poly
3. Battery type: Lithium iron phosphate battery
4. -30 +60 working temperature:
5. -30 +60 storage temperature
6. time 8—12hours(optional)
7. 3-5m mounting height
8. 1-3 days illuminating overcast day
9. 3 years warranty 3 years
10. 5730 glue eye source type5730
- 11.5 0-270 Lighting area:50~270m² 12.method: remote control

Product code	GBN-LF-L1	GBN-LF-L1	GBN-LF-L1	GBN-LF-L1	GBN-LF-L1
Wattage	25	40	60	100	120
Lamp bead	3030-54pcs	3030-99pcs	3030-182pcs	5054-272pcs	5054-272pcs
Solar panel	8W6V	12W6V	25W6V	35W6V	45W6V
battery specs	3.2V5AH	3.2V10AH	3.7V20AH	3.7V30AH	3.7V36AH
(mm) panel size	188*15*350	300*17*350	435*17*350	580*17*350	595*25*510



STATISTICAL TABLE SOME TYPICAL PROJECTS USING GBN NEW TECHNOLOGY LIGHTS

No.	Customer	Project	Address
1	Vietnam Liwayway Joint Stock Company	Provide LED factory lights	VSIP Binh Duong Industrial Zone Binh Duong
2	Kuroda Kagaku Vietnam	Provide LED factory lights	Phuc Dien Industrial Zone Hai Duong
3	Toyoda Gosei HaiPhong Co., Ltd	Provide LED factory lights	Nomura Industrial Zone Hai Phong
4	Omron Healthcare Manufacturing VietNam Co., Ltd	Provide LED factory lights	VSIP II Binh Duong Industrial Zone Binh Duong
5	SIK Vietnam Co., Ltd	Provide LED factory lights	Nomura Industrial Zone Hai Phong
6	TOYOTA MOTOR VietNam Co., Ltd	Provide LED factory lights	Vinh Phuc
7	Takagi Vietnam Co., Ltd	Provide LED factory lights	Thang Long II Industrial Zone Hung Yen
8	De Heus Co., Ltd	Provide LED factory lights	My Phuoc Industrial Zone Binh Duong
9	Yusen Logistics Co., Ltd (Vietnam)	Provide LED factory lights	Yen Phong Industrial Zone Bac Ninh
10	Nissei Technology VIET NAM Co., Ltd	Provide LED factory lights	Phuc Dien Industrial Zone Hai Duong
11	Zamil Steel Buildings Vietnam Co., Ltd	Provide LED factory lights	Noi Bai Industrial Zone Ha Noi
12	Vietnam Steel Products Co., Ltd	Provide LED factory lights	Noi Bai Industrial Zone Ha Noi
13	Hoa Phat Furniture JSC	Provide High-frequency lights factory and LED factory lights	Pho Noi A Industrial Zone Hung Yen
14	Han Viet Steel Joint Stock Company	Provide LED factory lights	Quan Toan - Hai Phong
15	Denyo Vietnam Co., Ltd	Provide LED factory lights	Thang Long II Industrial Zone Hung Yen

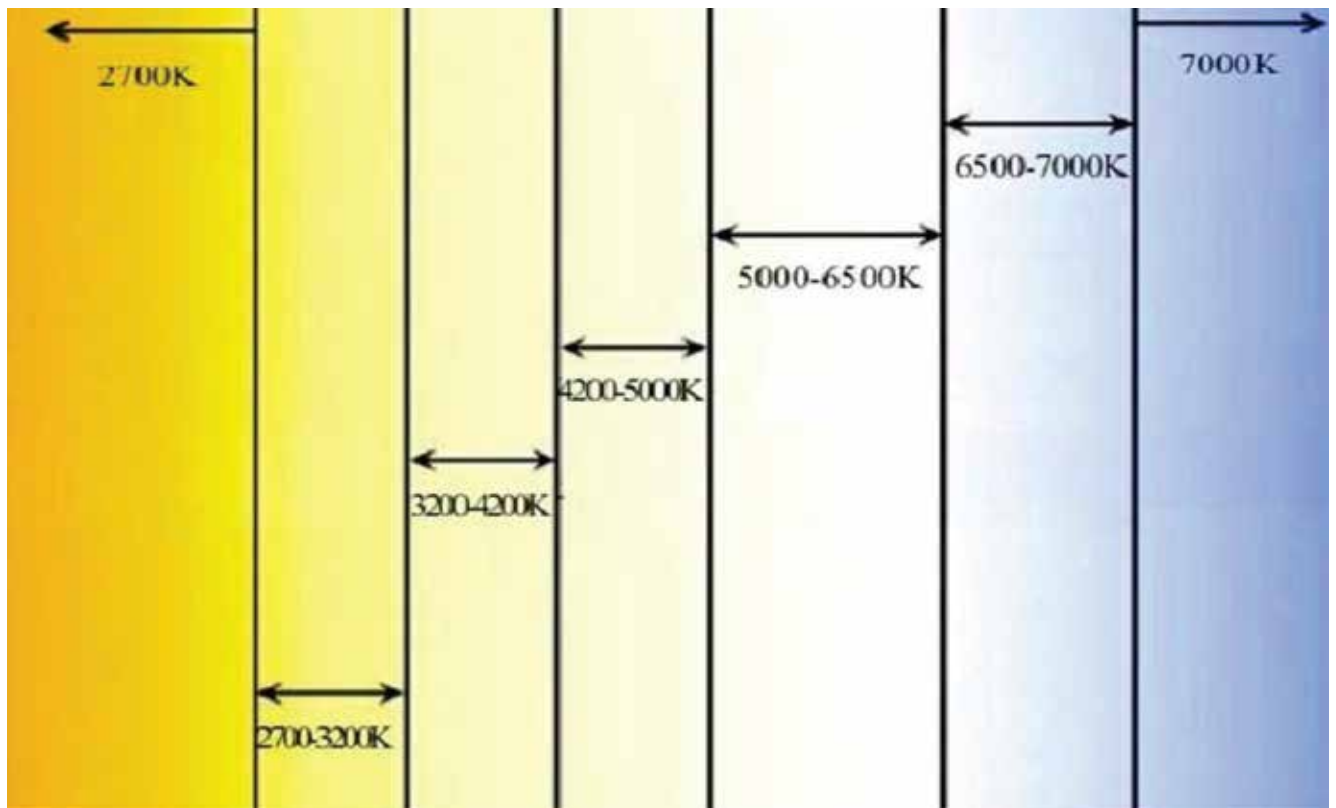
No.	Customer	Project	Address
16	Mitac Precision Technology VietNam Co. Ltd	Provide LED factory lights	Que Vo Industrial Zone – Bac Ninh
17	GS Battery Vietnam Co.,Ltd	Provide LED factory lights	VSIP Binh Duong Industrial Zone Binh Duong
18	The House Sporting Bac Ninh	Provide High-frequency lights	Bac Ninh City
19	JP Corelex (Vietnam) Co.,Ltd	Provide LED factory lights	Pho Noi A Industrial Zone Hung Yen
20	Nui Phao Mining Company Limited	Provide LED factory lights	Thai Nguyen
21	Hamatetsu VietNam Co. Ltd	Provide LED factory lights	Thang Long II Industrial Zone Hung Yen
22	LIXIL VINA Co., Ltd	Provide LED factory lights	Gia Lam, Ha Noi
23	Heineken Vietnam Brewery Da Nang	Provide LED factory lights	Hoa Khanh Industrial Zone Da Nang
24	Sumiden Vietnam Automotive Wire Co., Ltd	Provide LED factory lights	Dai An Industrial Zone Hai Duong
25	Thang Long Industrial Park Corporation	Provide products recessed fixture lights T5	Thang Long Industrial Zone
26	RORZE ROBOTECH Co.,Ltd	Provide LED factory lights	Nomura Industrial Zone Hai Phong
27	Panasonic AVC Networks Vietnam Co., Ltd	Provide High-frequency lights	Thang Long Industrial Zone
28	Bridgestone Tire Manufacturing Vietnam LLC	Provide LED factory lights	Dinh Vu Industrial Zone
29	A&A Green Phenix Joint Stock Company	Provide High-frequency lights factory and LED factory lights	Hoa Lac Hi-tech Park
30	Yamaha Motor Vietnam Co., Ltd	Provide LED factory lights	Binh An Village, Trung Gia Commune, Soc Son District, Hanoi

TYPICAL PROJECT





COLOR TEMPERATURE



CONSULTING AND PROVIDING GBN ENERGY AUDIT SERVICE

Consulting GBN Power Saving Solutions

GBN has a group of highly qualified technicians, trained intensive electricity sector, with our vast experiences in providing solutions for power saving efficiency for many enterprises and organizations in Vietnam. GBN confidently brings the most efficient consulting power-saving solution services which help enterprises the organizations save 40-80% of energy cost each month.

Consulting and providing energy audit services GBN

Energy audit is an activity to assess the operation fact of the energy system in a enterprise, thereby determining the waste energy sectors so that proposed solutions to save energy for enterprises.

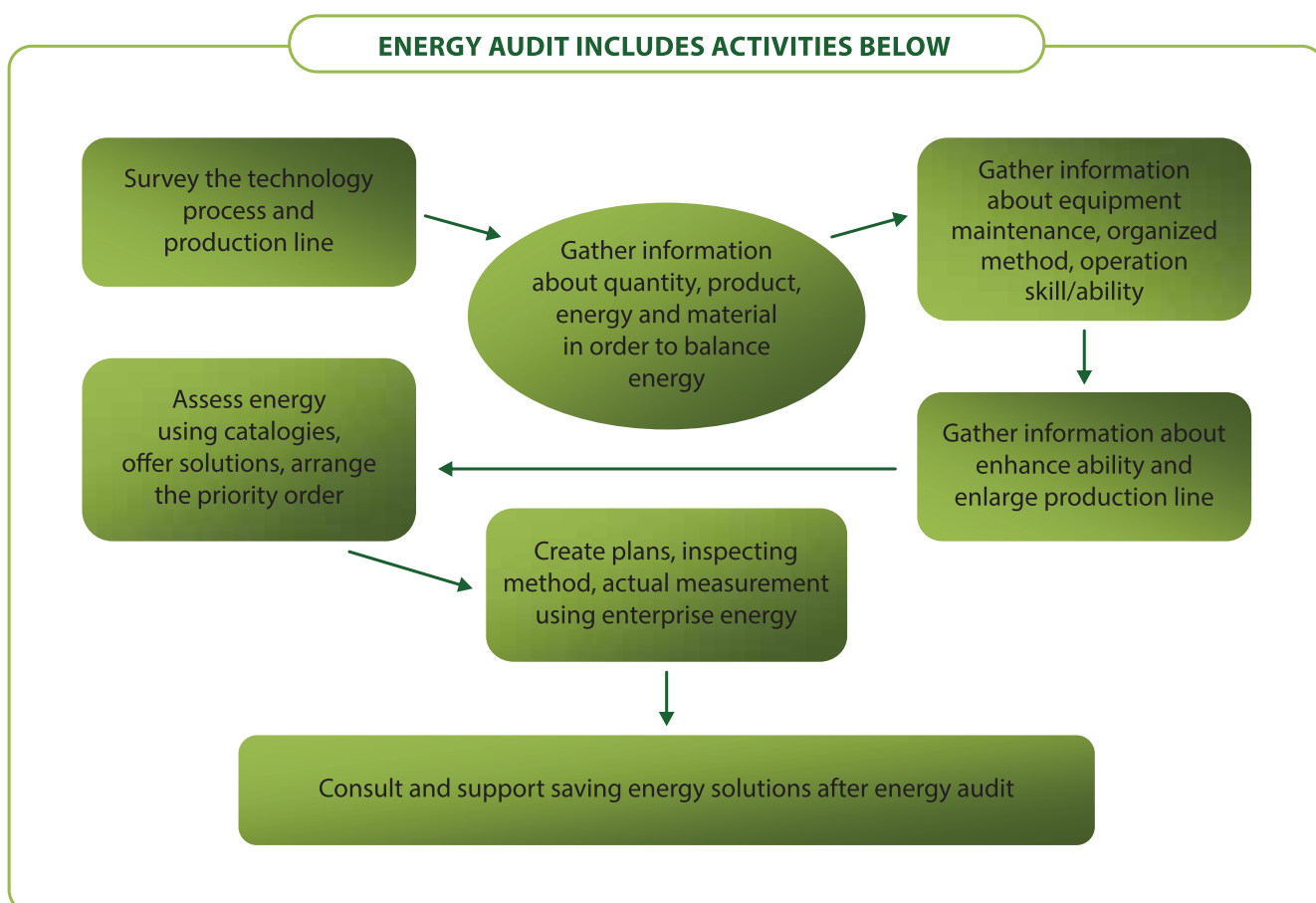
Energy audit helps us identify trends of energy consumption and energy saving potential of various types of equipment such as engine, pumps, ventilation systems, air conditioning systems, heat system...


Energy audit helps the Company:

- Identify energy saving potential and the priority of each saving solution.
- Assess the impact of energy saving solutions to the manufacturing and business in the future.
- Increase awareness of energy using by leaders and staff in the enterprise.

Energy audit benefits?

Using outdated technologies, designing is not optimal, operating is not compatible, usage behavior is not effective ... cause the energy loss. The results of the energy audit show the potential application solutions for businesses of Vietnam and foreign countries generally saving from 10% to 40% of the total power consumption.





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