

Plusrite®

TOWER LIGHTING



Contact us

Plusrite®

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V8





福隆控股集团
FLON HOLDINGS





Turning Light into Harmony...

Company Profile

Plusrite Electric was founded in May 1986 in Changzhou, China, with the vision of becoming a recognized leader throughout the world in the distributing and manufacturing of high-quality lighting products. With our emphasis on continual innovation, excellence in manufacturing and customer driven service, today Plusrite Electric has grown into a global leader in the manufacturing and distribution of LED, HID, tungsten halogen, fluorescent and other specialty lighting products. In addition to receiving the ISO 9001 Quality System certification, Plusrite Electric has received numerous awards for their outstanding products, innovative designs and international business enterprises.

With factories, distribution warehouses and sales offices located throughout Asia and North America, and expansion planned into South America and Europe, Plusrite Electric products are being manufactured to accommodate the rapidly expanding global marketplace. Currently there are more than 1000 different lighting products being sold in over 50 countries and regions throughout the world.

With the introduction of Plusrite Electric's signature brand, Plusrite, electrical wholesalers and lighting specialty companies throughout North America are turning to Plusrite Electric for a unique combination of reliable, low-cost, high-margin lighting products.

Product development is a high priority at Plusrite Electric. While striving to manufacture the best products possible, engineers and technicians are also working to expand the Plusrite product line. New products are continually being added to the lamp catalog.

As Plusrite brand is quickly becoming the brand of choice throughout the world, Plusrite Electric is proud to offer their mission statement to you, the customer: It is our mission to utilize teamwork and innovation to integrate the raw materials, global standard production techniques and the highest level of quality throughout our organization in order to provide every customer with the best products and service possible.

APPLICATION



Mine Lighting



Construction Lighting



Port Lighting



Mobile Lighting Tower



Temporary Lighting



Area Lighting



Stadium Lighting



Camping Lighting





Mobile
Lighting Tower



Construction
Lighting



Mine
Lighting



Port
Lighting





Stadium
Lighting



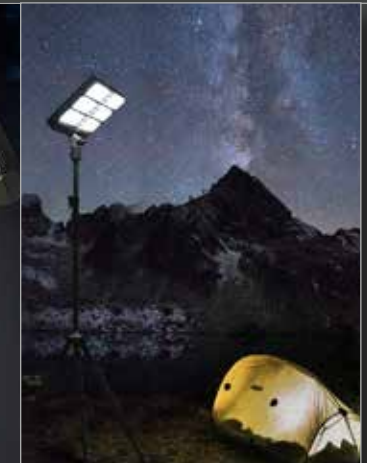
Temporary
Lighting



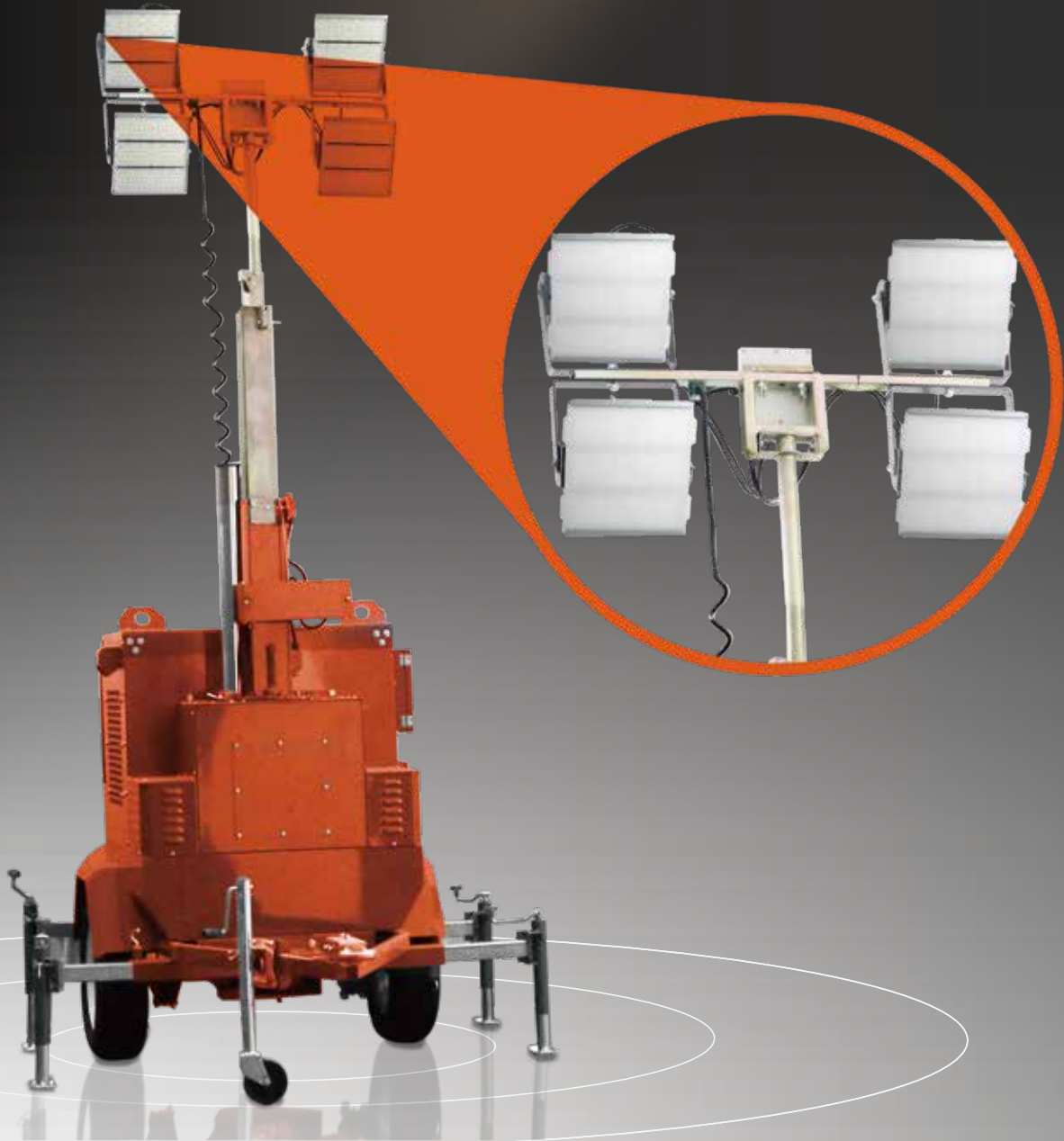
Area
Lighting



Camping
Lighting



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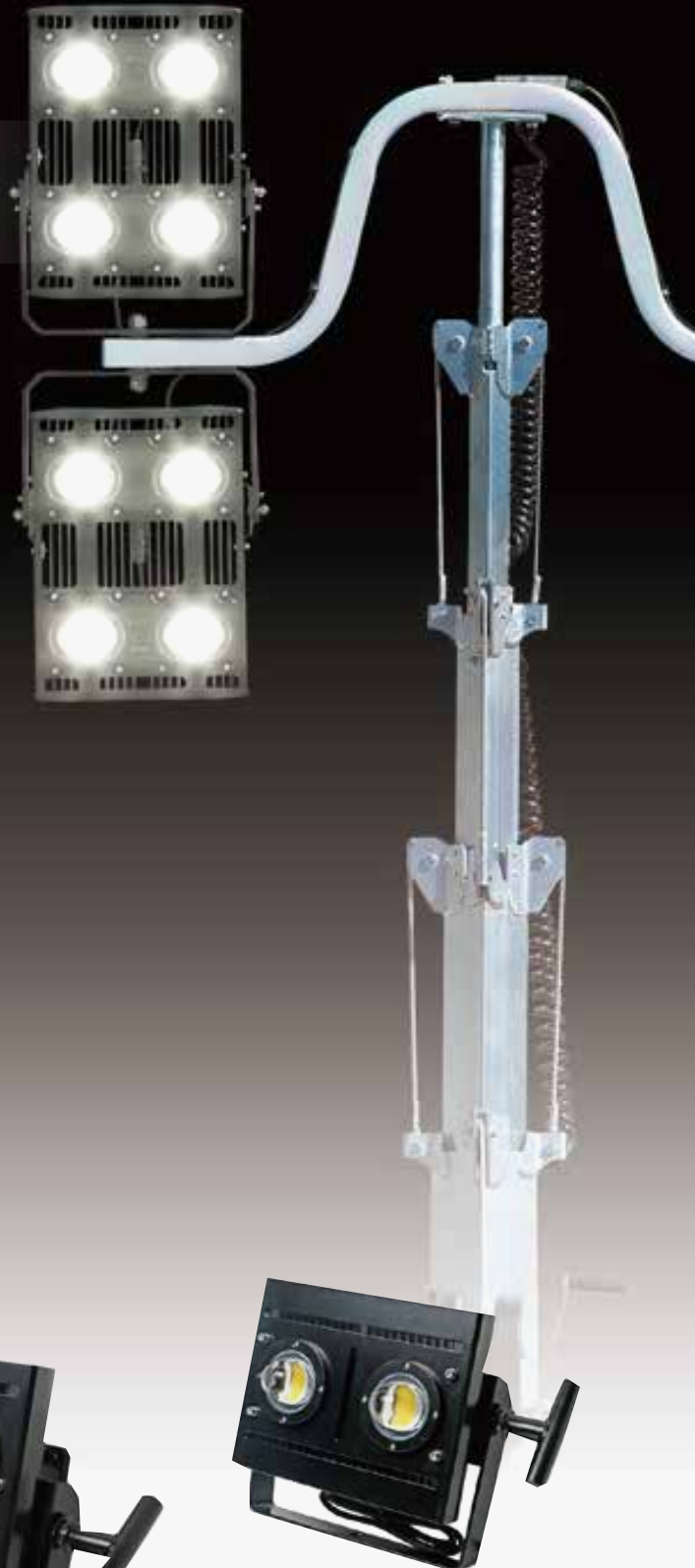
RoHS
COMPLIANT

3G

50,000
hours

5
years

TG201-COB



Key Features

Housing Material

Aluminum 6063

Lens Material

Glass with extremely high light transmittance

Optional Driver

Meanwell / Sosen

Optional LED Chips

Citizen / Samsung COB Chips

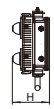
Excellent heat dissipation, which ensure the fixture's lifetime.

Compact, firm and efficient design pass 3G vibration test

Uniform illumination can comfort operators, which increase the efficiency

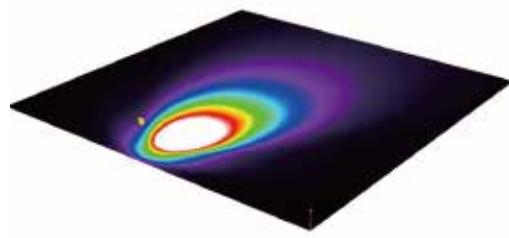
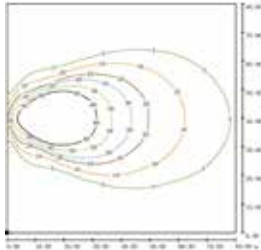
Special developed Lens with excellent narrow or wide light performance

Dimensions



Light Distribution

TG201/350/4E/COB
QTY: 4pcs



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm /tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
										Length	Width	Height	
TG201/160/2E/COB	160	100-277Vac /48Vdc	50/60Hz (AC)	150	24000	96000	70	45° /60° /90°	IP67	410	291	190	6.7
TG201/350/4E/COB	350			150	52500	210000				410	373	200	9.7
TG201/400/4E/COB	400			140	56000	224000				410	373	200	9.7
TG201/500/4E/COB	500			130	65000	260000				410	523	200	11.0

TG203



Key Features

Housing Material

Aluminum 6063

Lens Material

PC with extremely high light transmittance

Optional Driver

Meanwell / Sosen

Optional LED Chips

Lumileds / Bridgelux

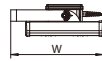
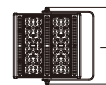
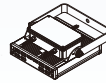
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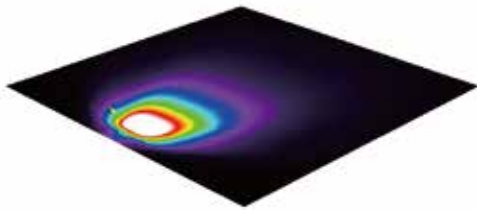
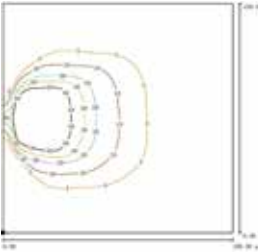
Spical developed Lens with excellent narrow or wide light performance.

Dimensions



Light Distribution

TG203/350/M2L
QTY: 4pcs



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm /tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
										Length	Width	Height	
TG203/150/M1	150	100-277Vac /24Vdc /48Vdc	50/60Hz (AC)	150	22500	90000	70	45° /60° /90°	IP67	386	243	140	6.3
TG203/250/M2	250			160	40000	160000				386	329	140	8.5
TG203/350/M2L	350			150	52500	210000				386	405	140	9.7
TG203/400/M3	400			155	62000	248000				386	449	140	10.5
TG203/500/M3L	500			145	72500	290000				386	500	140	12.0

TG203-T



Key Features

Housing Material

Aluminum 6063

Lens Material

PC with extremely high light transmittance

Optional Driver

Meanwell / Sosen

Optional LED Chips

Lumileds / Bridgelux

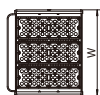
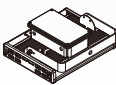
Excellent heat dissipation, which ensure the fixture's lifetime.

Compact, firm and efficient design pass 3G vibration test.

Uniform illumination can comfort operators, which increase the efficiency.

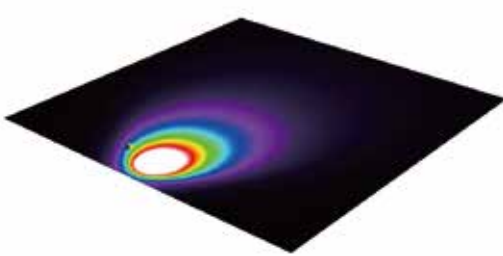
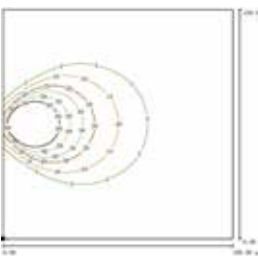
Spical developed Lens with excellent narrow or wide light performance.

Dimensions



Light Distribution

TG203/350/T
QTY: 4pcs



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm /tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
										Length	Width	Height	
TG203/350/M3T	350	100-277Vac /24Vdc /48Vdc	50/60Hz (AC)	160	56000	224000	70	45° /60° /90°	IP67	366	415	140	11.0
TG203/400/M3T	400			150	60000	240000				366	415	140	11.5
TG203/500/M4T	500			160	80000	320000				366	534	140	15.5
TG203/600/M4T	600			150	90000	360000				366	534	140	16.0
TG203/700/M5T	700			145	101500	406000				366	654	140	17.0

TG207



Key Features

Housing Material
Die-casting Aluminum 12

Lens Material
Glass with extremely high light transmittance

Optional Driver
Meanwell / Sosen

Optional LED Chips
Lumileds / Bridgelux

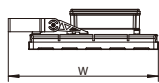
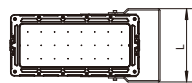
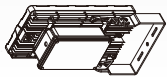
Excellent heat dissipation, which ensure the fixture's lifetime.

Compact, firm and efficient design pass 3G vibration test

Uniform illumination can comfort operators, which increase the efficiency

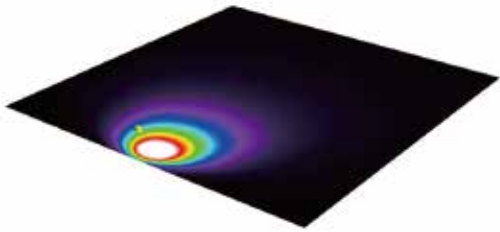
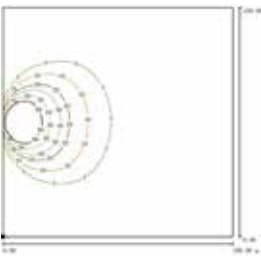
Special developed Lens with excellent narrow or wide light performance

Dimensions



Light Distribution

TG207/300/4E/COB
QTY: 4pcs



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm /tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
										Length	Width	Height	
TG207/240	240	100-277Vac /24Vdc /48Vdc	50/60Hz (AC)	145	34800	139200	70	/60°	IP66	276	566	150	9.8
TG207/300	300			135	40500	162000		/90°		276	566	150	10.0

TG208



Key Features

Housing Material

Die-casting Aluminum 12

Lens Material

Glass with extremely high light transmittance

Optional Driver

Sosen

Optional LED Chips

Lumileds / Bridgelux

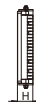
Excellent heat dissipation, which ensure the fixture's lifetime.

Compact, firm and efficient design pass 3G vibration test

Uniform illumination can comfort operators, which increase the efficiency

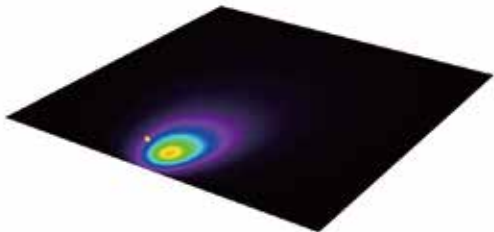
Special developed Lens with excellent narrow or wide light performance

Dimensions



Light Distribution

TG208/100
QTY: 4pcs



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm /tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
										Length	Width	Height	
TG208/60	60	100-277Vac /24Vdc	50/60Hz (AC)	145	8700	34800	70	45°	IP65	292	296	55	2.3
TG208/100	100			135	13500	54000		/60° /90°		292	296	55	2.6

TG209



COB

SMD

Key Features

Housing Material

Aluminum 6063

Lens Material

PC or Glass with extremely high light transmittance

Optional Driver

Sosen

Optional LED Chips

Bridgelux SMD / Samsung / Citizen LED COB

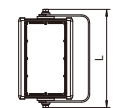
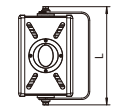
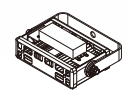
Excellent heat dissipation, which ensure the fixture's lifetime.

Compact, firm and efficient design pass 3G vibration test

Uniform illumination can comfort operators, which increase the efficiency

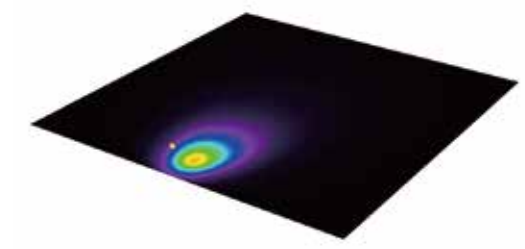
Special developed Lens with excellent narrow or wide light performance

Dimensions



Light Distribution

TG208/100
QTY: 4pcs



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm/tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
										Length	Width	Height	
TG209/60/1E/COB	60	100-277Vac /24Vdc /48Vdc	50/60Hz (AC)	150	9000	36000	70	45° /60° /90°	IP67	290	210	120	2.8
TG209/100/1E/COB	100			145	14500	58000				290	210	120	3.0
TG209/150/1E/COB	150			130	19500	78000				290	270	120	4.0
TG209/60/M1/SMD	60			170	10200	40800				290	210	100	2.8
TG209/100/M1/SMD	100			160	16000	64000				290	210	100	3.0
TG209/150/M1L/SMD	150			160	24000	96000				290	270	100	3.5
TG209/300/M2/SMD	300			160	48000	192000				340	240	116	7.0

TG211



Key Features

Housing Material

Aluminum 6063

Lens Material

Glass with extremely high light transmittance

Optional Driver

Sosen

Optional LED Chips

Lumileds / Bridgelux

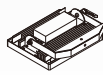
Excellent heat dissipation, which ensure the fixture's lifetime.

Compact, firm and efficient design pass 3G vibration test

Uniform illumination can comfort operators, which increase the efficiency

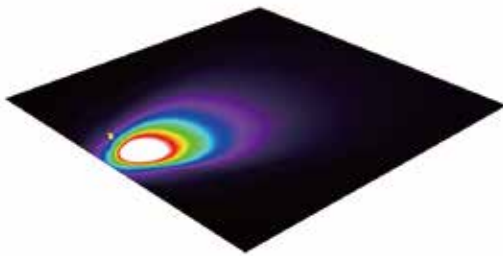
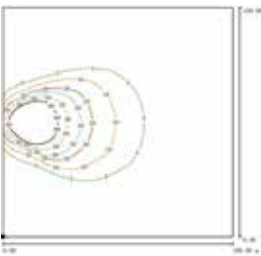
Special developed Lens with excellent narrow or wide light performance

Dimensions



Light Distribution

TG211/320
QTY: 4pcs



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm /tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
										Length	Width	Height	
TG211/240	240	100-277Vac /24Vdc /48Vdc	50/60Hz (AC)	145	34800	139200	70	30°	IP67	425	371	123	10.5
TG211/320	320			145	46400	185600		/60° /90°		425	371	123	10.5

TG212



Key Features

Housing Material
Die-casting Aluminum 12

Lens Material
PC with extremely high light transmittance

Optional Driver
/

Optional LED Chips
Lumileds / Bridgelux

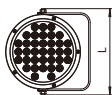
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Uniform illumination can comfort operators,
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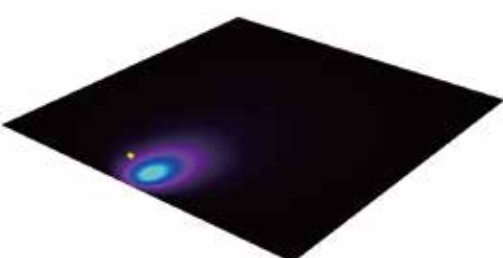
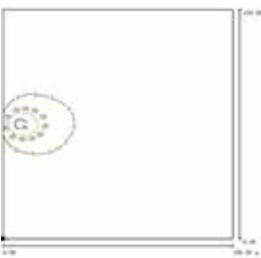
Special developed Lens with excellent narrow
or wide light performance

Dimensions



Light Distribution

TG212/50
QTY: 4pcs



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm /tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
										Length	Width	Height	
TG212/50	50	100-240Vac /12Vdc /24Vdc	50/60Hz (AC)	140	7000	28000	70	30° /60° /90°	IP67	220	216	76	2.5

GK503



Key Features

Housing Material
Die-casting Aluminum 12

Lens Material
PC with extremely high light transmittance

Optional Driver
Moso / Sosen

Optional LED Chips
Lumileds / Bridgelux

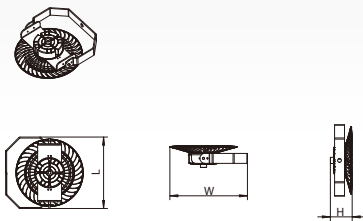
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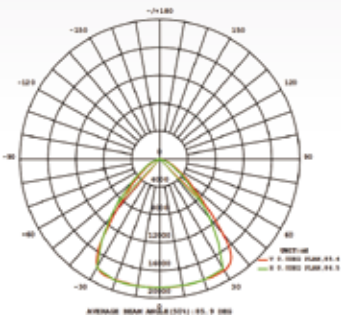
Uniform illumination can comfort operators, which increase the efficiency

Special developed Lens with excellent narrow or wide light performance

Dimensions



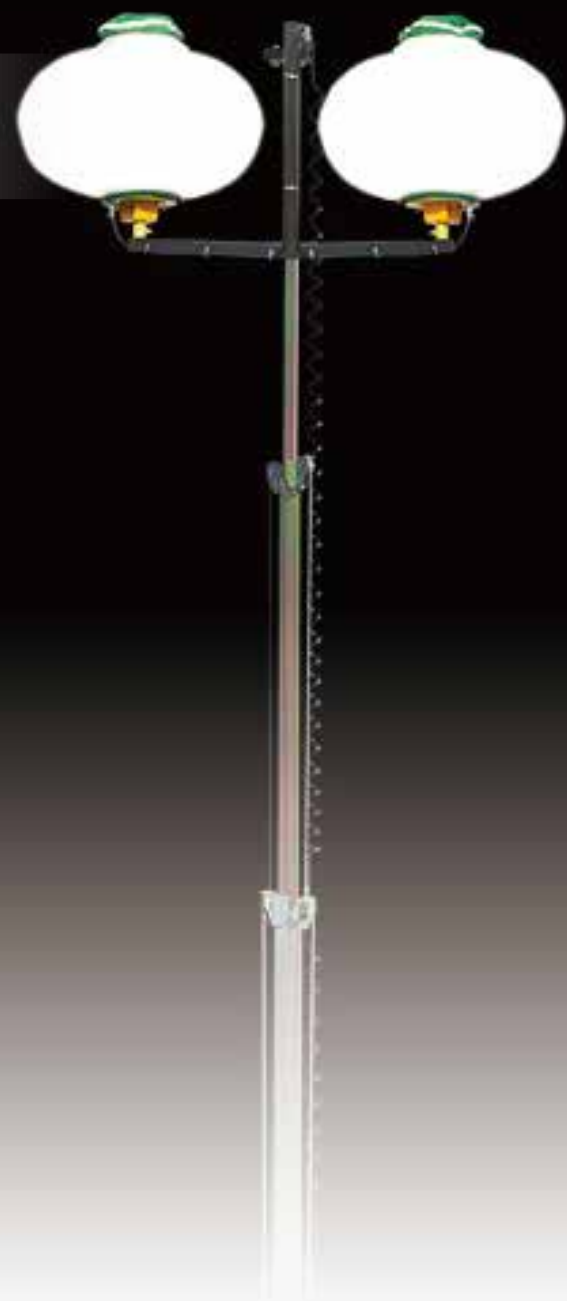
Light Distribution



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm/tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
										Length	Width	Height	
GK503/150	150	100-277Vac /24Vdc /48Vdc	50/60Hz (AC)	140-160	21000-24000	84000-96000	70	60° /90° /120°	IP65	359	392	110	6.6
GK503/200	200				28000-32000	112000-128000				430	460	110	7.9
GK503/250	250				35000-40000	140000-160000				430	460	110	8.4

BL600



Key Features

Optional Driver

Meanwell / Sosen

Optional LED Chips

Lumileds / Cree

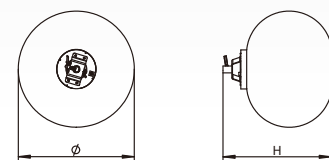
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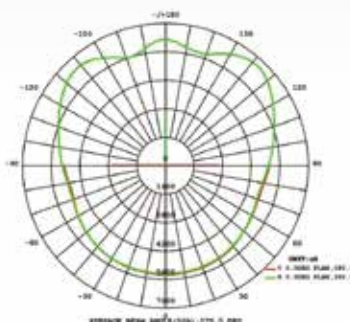
Uniform illumination can comfort operators, which increase the efficiency

Special developed Lens with excellent narrow or wide light performace

Dimensions



Light Distribution



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	Output (lm /tower)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)		Weight (kgs)
										Diameter	Height	
BLD480	480	120Vac /230Vac /48Vdc	50/60Hz	140	67200	134400	70	360°	IP33	φ1000	800	10.5
BLD600	600			135	81000	162000				φ1000	800	10.5

PLS-WK25W-6K



Key Features

Housing Material
Flame-retardant ABS

Charging Time
7.5H(DC) / 24H(Solar)

Duration Time
2-14H

Three dimming levels,
six light options.

Durable and adjustable tripod,
height from 1m to 2m.

Multi-purpose LED light for outdoor camping,
gardening, working, portable lighting etc..

All single lights are available to operate individually.
Each light can be connected as module light by connectors.

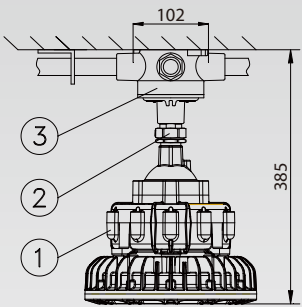


CAMPING LIGHTING

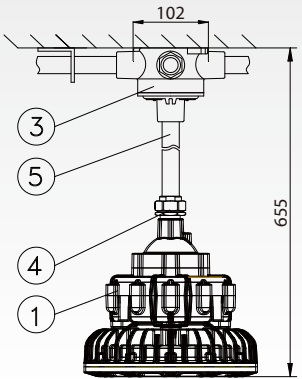
Specifications

Model	Wattage (W)	Input Voltage (V)	Battery Capacity(mAh)		Luminous Flux		CRI	Beam Angle (°)	IP Degree	Dimension(mm)			Weight (kgs)
			Single light	Whole light	Single light	Whole light				Length	Width	Height	
WKL25	25	Solar/ 240Vac/ 12Vdc	5000	15000	1150	3450	80	/	IP44	940	1080	2100	7.0

EPL680



- Ceiling Mount -



- Pendant -

Key Features

- Excellent heat dissipation, which ensure the fixture's lifetime.
- Compact, firm and efficient design pass 3G vibration test
- Uniform illumination can comfort operators, which increase the efficiency
- Special developed Lens with excellent narrow or wide light performance

Dimensions



Specifications

Model	Wattage (W)	Input Voltage (V)	Frequency	Efficacy (lm/w)	Output (lm/fixture)	CRI	Beam Angle (°)	IP Degree	Dimension(mm)		Weight (kgs)
									Diameter	Height	
EPL6801	20-100	100-277Vac	50/60Hz	120-130	2400-13000	70	60° /90°	IP66	260	250	7.25
EPL6802	120-160			120-130	14400-20800				300	250	8.6

TG1000



Key Features

Housing Material

Aluminum Alloy

Excellent heat dissipation, which ensure the fixture's lifetime.

Lens Material

Glass with extremely high light transmittance

Compact, firm and efficient design pass 3G vibration test

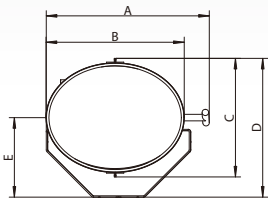
Fasteners Material

Stainless Steel

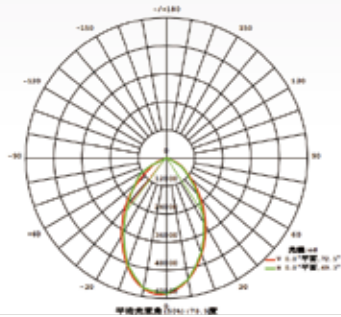
Uniform illumination can comfort operators, which increase the efficiency

Special developed Lens with excellent narrow or wide light performance

Dimensions



Light Distribution



Specifications

Model	Light Source	Base Type	Input Voltage	Working Temperature	Net Size(mm)					Weight (kgs)
					A	B	C	D	E	
TG1000	MH1000W	E39/ E40	120-277V	-30°C - 50°C	640	535	460	515	275	7.5
TG1000	MH1100W									
TG1000	MH1250W									

FG13611



Key Features

Housing Material
Die-casting Aluminum 12

Lens Material
Glass with extremely high light transmittance

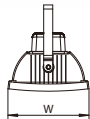
Excellent heat dissipation,
which ensure the fixture's lifetime.

Compact, firm and efficient design
pass 3G vibration test

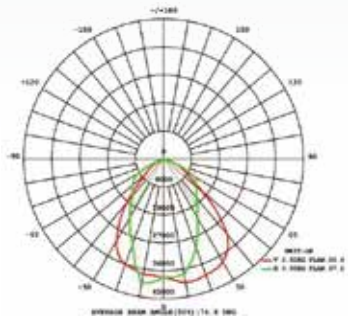
Uniform illumination can comfort operators,
which increase the efficiency

Special developed Lens with excellent narrow
or wide light performance

Dimensions



Light Distribution



Specifications

Model	Light Source	Base Type	Input Voltage	Working Temperature	Dimension(mm)			Weight (kgs)
					Length	Width	Height	
FG13611	MH1000W-T	E39/ E40	120-277V	-30°C - 50°C	455	355	335	7.0
FG13611	HPS1000W-T							

Metal Halide Lamps



Key Features

Stable Performance

Arc Tube Design

Superior Quality

High Quality International Raw Material Using

High Efficacy

Superior to Most Traditional Light Source and Meet with Various Lighting Demands

Great CRI

Latest Halide Pill System Using

Better Performance and Brighter High Efficacy

Universal Burning Position

Longer Life

Stable Output and Good Maintenance



Specifications

Model	Wattage (W)	Base Type	Bulb	Cap	Output (lm/lamp)	CCT(K)	CRI	Lifetime(H)	Matching Ballast
MH400/T46	400	E39	T46	60HZ 24uF (400V/ 540V)	32000	4200	70	15000	BAMH400-CWA/V120 BAMH400-CWA/V230EU
MH400/BT37	400		BT37	50HZ 26uF (400V/ 540V)	36000	4200	65	20000	
MH1000/TT64	1000		TT64	60HZ 24uF (480V/ 540V)	85000	4200	65	15000	BAMH1000-CWA/V120 BAMH1000-CWA/V230EU
MH1000/BT37	1000		BT37	50HZ 30uF (480V/ 540V)	110000	4200	65	10000	

High Pressure Sodium Lamps

Key Features

Stable Performance

Arc Tube Design

Superior Quality

High Quality International Raw Material Using

High Efficacy

Superior to Most Traditional Light Source and Meet with Various Lighting Demands

Great CRI

Latest Halide Pill System Using

Better Performance and Brighter High Efficacy

Universal Burning Position

Longer Life

Stable Output and Good Maintenance



Specifications

Model	Wattage (W)	Base Type	Bulb	Cap	Output (lm/lamp)	CCT(K)	Lifetime(H)	Matching Ballast
HPS1000/ET25	1000	E39	ET25	60HZ 26uF (525V/ 540V)	124000	2000	24000	BALU1000-CWA/V120 BALU1000-CWA/V230EU
HPS1000/BT37	1000		BT37	50HZ 32uF (540V)	115000	2000	20000	

Capacitor & Ballast



Key Features

Special Metal Halide Lamp Ballast

Built-in Installation

Longer Life
Using High Insulation Resistance Material
to Make Ballast

Which Perfectly Matching
with Plusrite Metal Halide Lamp

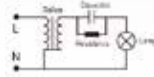
High-grade Copper Wire and Silicon Steel Sheet

Standard MH Ballast with Screw and
Fixed Terminal Blocks

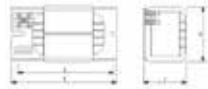
Dimensions



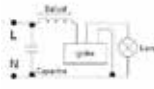
M-Series



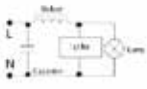
Wiring Diagram



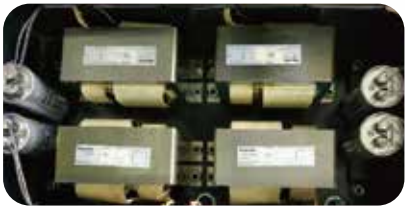
PLUS-MH-Series



Wiring Diagram A



Wiring Diagram B



Specifications

Model	Voltage (V)	Frequency (HZ)	Cap	Dimension(mm)			Weight (kgs)	Installation Dimensions(mm)
				Length	Width	Height		
BAMH400-CWA/V120	120	60	24uf-400/540V	132	135	135	4.9	115*85
BAMH1000-CWA/V120	120	60	24uf-480/540V	197	117	111	8.6	171*42
BAMH400-CWA/V230EU	230	50	26uf-400/540V	132	135	135	4.9	115*85
BAMH1000-CWA/V230EU	230	50	30uf-480/540V	197	117	111	8.6	171*42
BAMH400-CWA/V240	240	60	24uf-400/540V	132	135	135	4.9	115*85
BAMH1000-CWA/V240	240	60	24uf-480/540V	197	117	111	8.6	171*42

Electrical Box-X1

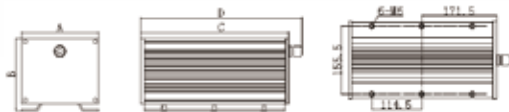


Key Features

- Extruded Aluminum with Electrostatic Sprayed Treatment
- Concise Appearance, Firm Structure and Good Seismic Performance
- High-temperature Silicone Rubber Sealing Ring with Excellent Waterproof Performance



Dimensions



Specifications

Model	Light Source	Voltage (V)	Frequency (HZ)	Net Size(mm)				Weight (kgs)
				A	B	C	D	
BAMH1000-CWA/V120	MH1000W	120	60	179	167	340	370	12.5
BAMH1000-CWA/V230EU		230	50					
BAMH1000-CWA/V240		240	60					

Electrical Box-X2

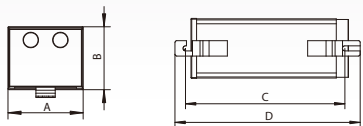
Key Features



- Precision Sheet Metal Processing with Electrostatic Sprayed Treatment
- Concise Appearance, Firm Structure and Good Seismic Performance
- Good Heat Dissipation with Excellent Waterproof Performance



Dimensions



Specifications

Model	Light Source	Voltage (V)	Frequency (HZ)	Net Size(mm)				Weight (kgs)
				A	B	C	D	
BAMH1000-CWA/V120x2	MH1000Wx2	120	60	165	138	439	510	12.9
BAMH1000-CWA/V230EUx2		230	50					
BAMH1000-CWA/V240x2		240	60					

Spiral Cable



Key Features

- Nice Appearance
- Good Shrinking and Elasticity
- Easily Bent,
Excellent Toughness



Specifications

Model	Insulating Material	Insulating Color	Sheath Material	Sheath Dimesion(mm)	Spiral Length(mm)	Spiral Diameter(mm)	Total Length (m)	Working Length of Screw Part (m)
9*16AWG	PVC	Colour Separation/ Mark Separation	Polyurethane	11.5±0.3	1000±10	50±2	12.0	5-6
9*16AWG	PVC		Polyurethane	11.5±0.3	1550±10	50±2	17.5	8-9
9*16AWG	UL insulating Material		UL elastic Material	14.5±0.3	950±10	60±2	12.0	5-6
9*16AWG	UL insulating Material		UL elastic Material	14.5±0.3	1100±10	60±2	17.5	8-9

Safety Instructions

Check the lamp carefully before installation.

1. Should the lamp fall of or loose or break, the product is prohibited to use.

2. Once the lamp tube bubbled or cracked, the product is prohibited to use.

3. Should the inside lamp fixing bracket fall off or loose or break, the product is prohibited to use.
4. Should the auxiliary starter of inside light bulb deform, fracture, too close to the two poles, the product cannot be used.

5. Should the lamp holder loose, the soldering crack contact point oxide, the product is prohibited to use.



The bulb installation.

1. To avoid the hand besmirch, perspiration and other pollution to the light bulb and to avoid the damage to the bulb and light fixture caused by pollution under the high lit temperature. the electrician should worn gloves when installation.

2. When installing the single-ended metal halide lamp, the electrician should hold its glass shell by one hand, and hold the lamp holder by another hand, and then fix the bulb on the lamp holder slowly, Must not using excessive force to prevent damage to the lamp holder or glass shell. If the lamp tube with the fixed bracket should release the bracket or loose the spring first, Then fix the bulb after installation.
3. When install the double-ended metal halide lamp should hold the 2 ceramic lamp holder ends, then locate the one end of the light source to the lamp holder, push it into inside it slowly, make sure the another end of the lamp head can fix to the lamp holder, loosen your

- hand after fixing the lamp source, make sure the lamp source be installed in good contact.
4. As to the double ends light tube which have no outside glass shell, don't touch it when it is working. Please hold up the lamp holder when take off the light tube.

5. When install the light source, must ensure the light source without rith the reflector or glass, Should keep some distances from them, otherwise it is belong to wrong installation.

Lighting

1. If no special instructions for the single-ended metal halide lamp, can be ignited at any position. Double end lamp's ignition point position should be the horizontal plus or minus 5°.

2. When testing, light should be stipulated in the corresponding products position. Horizontal lighting. The electric arc tube exhaust tips should be upward.

3. Ballast, ignitor, capacitor and so on should be correct matching, wiring methods are confirmed right before lighting. To prevent ultraviolet radiation to the human eye or skin damage, we must cover the light fixture's glass first before igniting the double end metal halide light whose lamp have no glass shell.

4. Please make sure the power supply and frequency is in the rated scope before igniting. If not, please adjust them to the right rated scope or burn caused by high temperature shell explosion.

5. When the light source burning should avoid touching it, otherwise, it will leads to loosen bulb or bulb cracking or scratches or burn caused by high temperature shell explosion.

6. Don't touch the light source at any time to prevent to get an electric shock. If the lamp is not working. You should isolate the power immediately to check the circuit or lamp source.

7. To prevent halide consolidation at both ends the igniting test time must be more than 10 minutes so that ensure full boil the halide in the tank: if the arc discharge lamp hasn't fully set up, then turn off the lights. The two electrodes of the lamp arc tube will be black, and these will cause difficult start lighting. Lighting cannot be started again, Please choose the right ignitor to start auxiliary, after waiting for lights normal stable burning out, this black phenomenon will disappear.

8. The light cycle will affect the lamp lifetime. Shorter light cycle shorter lamp lifetime If the light cycle time is less than 10 hours, the lifetime as follows: the light cycle interval is 5 hours the lifetime is 75% of rated lifetime, the light cycle interval is 2.5 hours, the lifetime is 55% of rated lifetime; the light cycle interval is 1.25 hours, the lifetime is 40% of rated lifetime.

9. Don't touch the light source directly after just now isolate the power. Waiting to the light source fully cool down to take off or replace it.
10. Do not ignite the light source again before it is completely cool down. If the lamp source is damaged or not working in the ignitor's circuit you should isolate the power immediately, no circuit working without load.

11. Don't touch the light source directly after just turning it off, don't put the heating light tube on the cool place, don't put the heating light tube on the combustible and explosive goods.

12. Metal halide lamp maximum flux takes about 10 minutes, after 10 minutes to reach a steady state, do not switch it frequently, otherwise it will affect life span.

13. Metal halide lamp for high-intensity gas discharge lamp, if the glass of light fixture is broken, replacing the glass you should cut off the power supply immediately.

14. The metal halide light tube light up again should after it must be sufficient cooling Different power light tube, the cooling time is different, the time is from 5 to 15 minutes. The ballast will completely control the process automatically, during the time, To avoid damage to lamp life please do not repeat open the ballast.

15. Lamp restart: when metal halide lamp is working the atmospheric pressure will be higher in the lamp if you don't have a special device, then it could not immediately trigger light up again after it is turned off, because the air pressure will hinder the electronic conduction at this time. Steam in the lamp will cool down only if there's delay of a certain time, so it can make lamp work again in the situation of original breakdown voltage. This certain time is decided by the difference of power and the starting mode of halogen lamp. It's particularly easy to make the auxiliary electrode materials and the main electrical pole sputtering if the lamp is lighted when it doesn't cool completely. And such sputtering materials will be deposited on the walls of tubes leading to reduce of light brightness or damage of electrode, which will lead to the occurrence that lamps cannot be started easily or even ever.

HID Lamp Common Faults Guidelines

Common faults	Light cannot work
Possible reasons	Specific performance and corrective actions.
Bulbs and lamp holder poor contact	Tighten the bulb to the lamp holder, not use too much force, otherwise it will damage the light bulb or lamp holder. If the lamp holder deformation or burning or lamp not tightened correctly inside the lamp holder, replace the new lamp holder, lamp after screwing in lamp holder, tighten or loose are all not bright, maybe the inside lamp holder spring lost flexibility and lead to poor contact or not contact; Unscrew the lamp holder it is bright, but tighten the l amp holder it is not bright, it is maybe caused by the lamp holder attenuation of the high pressure which is produced by the electronic ignitor.
Lamp is damaged	Lam normal life is ended. With the using time increasing, the electrode attenuation to some degree then caused it cannot launch electrodes; Or due to residual trace impurities continuously emit harmful gas discharge and make the light start voltage rise and then make the lamp cannot start; Outside glass shell breakage or chronic leak. Characterized by broken outside glass shell or the lamp inside bracket change blond and black due to oxidation; Discharge tube poor sealed and leaked; Bulb inside connection parts disordering Open circuit or short circuit caused by lamp holder loose.
Lamp cooling is not sufficient	Metal halide lamp light immediately start will be filed if it is not fully cooling after the power is just cutting off in normal circumstances。 Lamp should be cooling after 10 to 15 minutes to start again.
Incorrect wiring	The wiring connection is not according to the stipulations. Incorrect wiring connection will caused light not bright or light flashes once, even seriously performance is the discharge light tube burst or lights launch a dazzling glare in an instant; The cable's high potential intensity is not enough; the insulating layer is damaged, caused the electronic ignitor generated high pulse attenuation or short-circuited. The connecting cable length from the ballast or electronic wiring of the trigger to the lamp holder is too long, caused starting pressure loss is big, and the trigger voltage is not enough, the lamp does not start .Suggest wiring length no more than 10 meters or within the effective length specified by the electronic ignitor.
Ballast in fault	Ballast in open circuit: if the ballast has valid input voltage and without output voltage, it is indicated that the ballast has burned or may be the terminal of screws loose or poor contact. Ballast in short circuit: ballast in short circuit (generally has the burning phenomenon), discharge tube often occurs cracking phenomenon in the sealing part; Error configuration of the ballast check the ballast power, voltage, and installation if correct match with the light.
Electronic ignitor in fault	Common fault is the electronic ignitor damaged,replace the new ignitor.
Electronic ignitor mismatched with the light.	Electronic ignitor mismatched with the light, Electronic trigger output pulse amplitude is low, cannot meet the requirement of the lamp starter, and replace the ignitor.
Fuse is broken	The fuse burn out, the light circuit will be in the open circuit. Inspect and replace a new fuse.
Too low power supply voltage	Check the circuit power supply voltage and ballast output votage. (with no prior to disconnect electronic tiggers may not test the ballast output voltage otherwise it may damage the test instrument)

Common faults	Light cannot work
Possible reasons	Specific performance and corrective actions.
mismatched ballast	Check if the ballast specification match with the lamp.if not match .replace the matched ballast.
Electronic ignition starter mismatched.	Electronic starter ouput energy is not enough. Such as the pulse peak voltage is not enough: Pulse width is not enough; Or pulse voltage phase does not meet the requirements.

Common faults	Light cannot work
Possible reasons	Specific performance and corrective actions.
Lamp normal life is ended	With the light using time increasing, emitting material in discharge tube reducing and the impurity gas increasing will cause the lamp voltage rise, then lead the light self turn off.
The start up voltage of ignitor is too slow.	In inductive ballast lighting systems, when the electronic ignitor start up voltage is too low but still make the light bright and the electronic ignitor is still in work, that easy to cause the lamp self turn off.
Mismatched Ballast.	In CWA ballast lighting system, the ballast performance does not meet the requirements, or the special capacitor capacity big attenuation (2uF) will cause the light self tum off.
The power supply vltage is too slow	The lamp can't normal start or start glowing arc can't keep work.
The lamp pooR contact with the lamp holder	Tighten the bulb to the lamp holder, not use too much force, othenwise it will damage the light bulbor lamp holder. If the lamp holder deformation or burning, or lamp not tightened correctly inside the lamp holder, replace the new lamp holder, lamp after screwing in lamp holder, tighten or loose are all not bright, maybe the inside lamp holder spring lost flexibility and lead to poor contact or not contact.
Power supply volTage big fluctuation	Light is not in normal and stable working.
Mismatched ballast	If the input voltage is too big, but the ballast voltage is small, that will caused the light self turn off.

Common faults	Light cannot work
Possible reasons	Specific performance and corrective actions.
Wrong wiring circuit	Check and orrect the circuit.
Lamp ignitbon in wrong way	Check the ignition of the light tube is in the right directon,and the lamp installation in the right direction, If not, the ignition will cause the lamp life short.
Mismatched ballast	Small power bulbs used in high power ballast which makes the lamp power too big and shorten the lamp ife because of low ballast resistance. even seriously appear discharge tube deformation phenomenon.
Poor quality ballast	Use the qualified ballast to comply with the performance requirements.
The power supply voltage is too high	If the power supply voltage is too high for a long time, it will shorten the lamp life because of its long work votage is too high under overload power.
Frequent switch of the light	High frequency switch of the light will cause the light tube electrode sputtering, which leads to the lamp voltage too fast and shortens lamp life.
Unscientific light design	Bad heat dissipation will cause the lamp overloaded power.
Mismatched ignitor	Make the light start time too long then shorten the lamp life,High pulse voltage also easy to damage the lamp .

Common faults	Light cannot work
Possible reasons	Specific performance and corrective actions.
Ballast resistanca is too big, makes the lamp power insufficient	Replace the ballasts.
Power supply voltage is too low, caused the light power insufficient.	Check the ballast power supply voltage when the light is working.
The light fixture or lamp has beenseriously polluted.	Check and clean the light, regular maintenance.

Common faults	Light cannot work
Possible reasons	Specific performance and corrective actions.
Mismatched ballast	Check the ballast model; make sure to use the right mode ballast.
Overvoltage work	Lightwork in over power status, power supply voltage is high, reduce the power supply voltage.
Discharge tube is overheating	Check lighting fixture and lamp installation environment, make sure the lamp working temperature is not too high.

Common faults	Light cannot work
Possible reasons	Specific performance and corrective actions.
Power supply voltage fluctuation	The light quantity should be the same in different phase In the installation design requirements. The different phase line voltage deviation should be limited, cannot be too large. The amount of light should not be more than eight under one switch control.
Ignition pattern differences	Different lamp lights direction will cause the lamp burning color different; suggest the same places lamp ignition should be in the same direction.
Ballast resistance differences	Use suitable ballast, suggest the same places using the same brand ballast.
100 hr photoelectric parameters stable process	One of the characteristics of high-strength gas discharge lamp. not belong to the fault
Light itself in flaw design	Optimize the light design.
Mixture of different specifications of the lamp	If the color is important consideration, suggest the same occasion to use the same specications' light.
Lamp ignition time differences	Different batches or same batch but the ignition time with different light color temperalure will vary, suggest th same sites to use the same batch light and ignition in same time.
Different manufacturer	The same type of lamp produced by diferent manufacturers .The color temperature will be different because the design and manufacturing process will be different , suggest the same places use the same manufacturer's light fixture.
The light fixture or lamp has been seriously polluted	Check and clean the light maintain it regularly.