



Who we are?

We, Fujian CAS-Ceramic Optoelectronics Technology Co., LTD are a R&D, producing and marketing LED lighting manufacturer which founded in 2013 by Chinese academy of science(CAS) and Fujian Enterprises and Entrepreneurs Confederation.

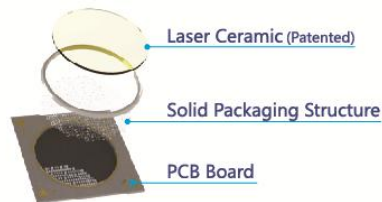
What we do?

As the only transfer platform of LED technology and industrialization of FJIRSM, we own the invention patent of laser ceramic LED light source - **KCOB** (PCT listed). By this technology, we could provide LED Sports light, High Bay Light, Street Light and Flood Light of better reliability.

What is K-COB?

K-COB is a unique LED packaging pattern--by using exclusive laser ceramic to replace traditional silicone and phosphor, we developed this brand new generation of LED light source.

More, we are the only supplier who has LM-80 certification of 600w singular COB light source.



Why choose K-COB product?

Current problems of COB

1. Silicone paste (with phosphors) broken due to continuously working, dragging wire and cause the failure.



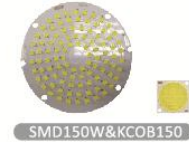
2. Phosphors failed because of high working temperature. Then the output light turns blue.



Core Material

laser ceramic

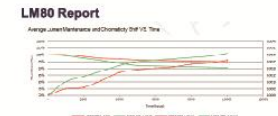
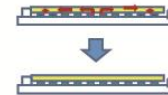
Core material: laser ceramic developed by CAS. High TMP endurance and conductivity, perfect replacement for traditional phosphor in LED chip;



Core package

Low thermal resistance packaging structure

Core packaging: laser ceramic cover + solid packaging structure + PCB board, dual heatsink from both top and bottom. This feature brings better reliability and longer lifespan.



Core Parts

All-in-one module

Core parts: Developing with CAS TC, we provide all-in-one lighting module;



Core Patent

Five invention patents

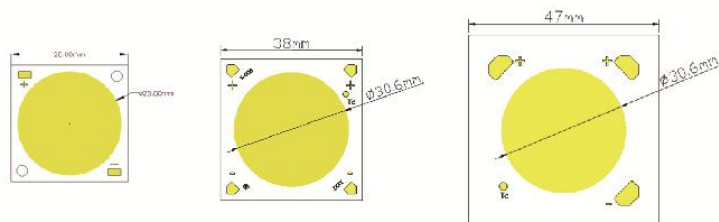
Core patent: 5 core international developing patents of white light and lamp structure (PCT passed)



K-COB

LASER CERAMIC LIGHT SOURCE CATEGORY

SPECIFICATION



XY-L28 SERIES

Model No.	Rated power(W)	Forward voltageVf(V)	Rated current IF(mA)	Max input current (mA)	CRI(Ra)	Color Temperature(K)	Efficiency lm/w *Based on 70ra
XY-L2805	50	49	1020	2600	70/80/90	2000-6500	150lm/w±5%
XY-L2810	100	49	2000	2600	70/80/90	2000-6500	150lm/w±5%
XY-L2815	150	49	3050	3150	70/80/90	2000-6500	145lm/w±5%

XY-L38 SERIES

Model No.	Rated power(W)	Forward voltageVf(V)	Rated current IF(mA)	Max input current (mA)	CRI(Ra)	Color Temperature(K)	Efficiency lm/w *Based on 70ra
XY-L3815	150	59	2400	2550	70/80/90	2000-6500	150lm/w±5%
XY-L3820	200	59	3150	3250	70/80/90	2000-6500	150lm/w±5%
XY-L3830	300	105	2700	2850	70/80/90	2000-6500	145lm/w±5%

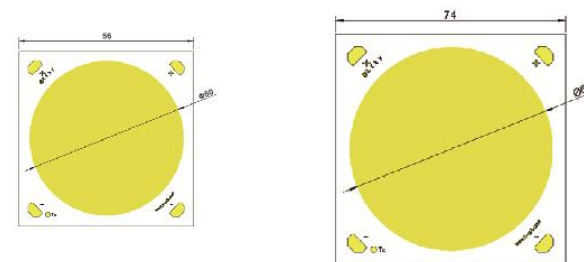
XY-L47 SERIES

Model No.	Rated power(W)	Forward voltageVf(V)	Rated current IF(mA)	Max input current (mA)	CRI(Ra)	Color Temperature(K)	Efficiency lm/w *Based on 70ra
XY-L4730	300	105	2700	2850	70/80/90	2000-6500	150lm/w±5%
XY-L4740	400	105	3600	3800	70/80/90	2000-6500	145lm/w±5%

K-COB

LASER CERAMIC LIGHT SOURCE CATEGORY

SPECIFICATION



XY-L56 SERIES

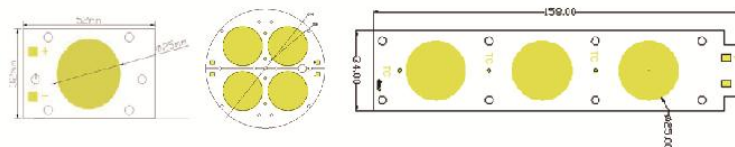
Model No.	Rated power(W)	Forward voltageVf(V)	Rated current IF(mA)	Max input current (mA)	CRI(Ra)	Color Temperature(K)	Efficiency lm/w *Based on 70ra
XY-L5640	400	124	3000	3150	70/80/90	2000-6500	150lm/w±5%
XY-L5650	500	124	3700	4050	70/80/90	2000-6500	150lm/w±5%
XY-L5660	600	124	4300	4800	70/80/90	2000-6500	145lm/w±5%
XY-L5670	700	124	5300	5500	70/80/90	2000-6500	145lm/w±5%

XY-L74 SERIES

Model No.	Rated power(W)	Forward voltageVf(V)	Rated current IF(mA)	Max input current (mA)	CRI(Ra)	Color Temperature(K)	Efficiency lm/w *Based on 70ra
XY-L7480	800	333	2400	3900	70/80/90	2000-6500	150lm/w±5%
XY-L74100	1000	333	3000	3900	70/80/90	2000-6500	150lm/w±5%
XY-L74120	1200	333	3600	3900	70/80/90	2000-6500	145lm/w±5%

* The PCB of this model is made of copper.

CUSTOMIZED SERIES



* Our light source is customizable for various applications.

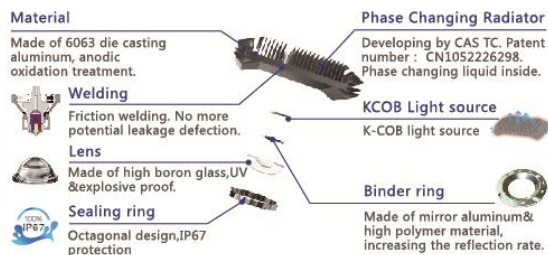
K-COB MODULE PRODUCT

MPC (Multi-phase changing) SERIES



Item No.	Power consumption	Voltage	Current	Luminous efficiency	CCT	CRI	B.A (°)	Dimension (mm)
XY-M12A100	100w	53v	1950mA	140lm/w	3000-6500K	70/80/90ra	60°/90°/120°	φ205*50mm
XY-M12A200	200w	75v	2550mA	140lm/w	3000-6500K	70/80/90ra	60°/90°/120°	φ205*50mm
XY-M12A300	300w	105v	2700mA	140lm/w	3000-6500K	70/80/90ra	60°/90°/120°	φ205*50mm

*This model is suitable for the vertical lighting fixture as high bay, down light etc.



Item No.	Power consumption	Voltage	Current	Luminous efficiency	CCT	CRI	B.A	Dimension
XY-T1-50	50w	59v	847mA	140	3000-6500K	70/80/90ra	Type I/II/III	331*200*84mm
XY-T1-100	100w	59v	1695mA	140	3000-6500K	70/80/90ra	Type I/II/III	331*200*84mm
XY-T1-200	200w	59v	3390mA	140	3000-6500K	70/80/90ra	Type I/II/III	331*200*84mm

*This model is suitable for lighting fixture such as streetlight, floodlight, tunnel etc.

K-COB MODULE PRODUCT

Graphene series

* Graphene is a new material composed of single-layer carbon atom special form. It is light in weight, easy molding, excellent thermal conductivity and insulativity. The module is possessed of good stability and high cost-effective, equipping with grapheme heat sink and KCOB-laser ceramic light source.



Item No.	Power consumption	Voltage	Current	Luminous efficiency	CCT	B.A	Dimension	Remark
XY-T2G-30	30w	48v	628mA	≥130lm/w	3000-6500K	Type I/II/III	300*74*81mm	Aluminum with graphenet
XY-T2G-50	50w	48v	1042mA	≥130lm/w	3000-6500K	Type I/II/III	300*74*81mm	Aluminum with graphenet
XY-T2G-60	60w	48v	1250mA	≥130lm/w	3000-6500K	Type I/II/III	300*74*81mm	Aluminum with graphenet



Item No.	Power consumption	Voltage	Current	Luminous efficiency	CCT	B.A	Dimension	Remark
XY-T3G-30	30w	48v	628mA	≥130lm/w	3000-6500K	Type I/II/III	300*40*70mm	Aluminum with graphenet
XY-T3G-50	50w	48v	1042mA	≥130lm/w	3000-6500K	Type I/II/III	300*40*70mm	Aluminum with graphenet

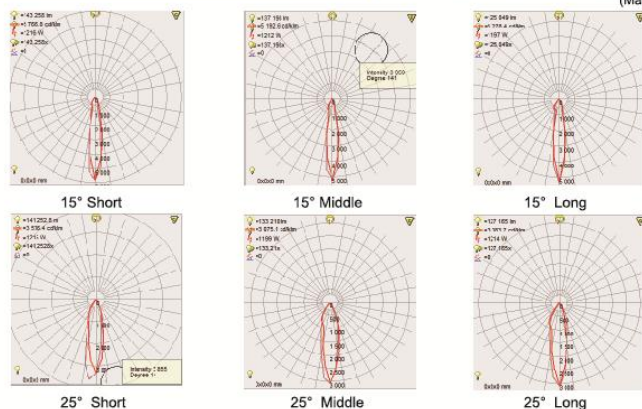
SPECIFICATION

Features



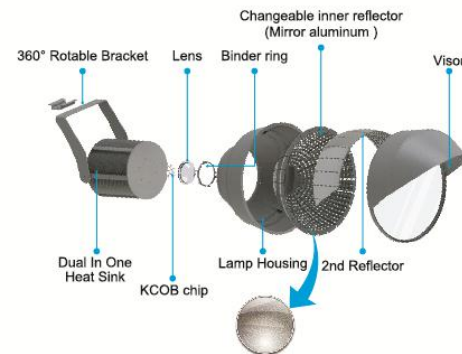
- Total glare free: small COB light source combination with visor of professional asymmetrical design, no visual discomfort for players;
- Delicate distribution: replaceable inner reflector with 3 types of visor, provide the most delicate lighting solution for different types of stadium;
- Maintenance free: top grade external LED driver with laser ceramic COB light source, guarantee the lamp performance within LED lifespan;
- High lumen output: up to 125lm/w lamp efficiency, high cost-effectiveness;
- Smart control system compatible;

Item No.	Power consumption	CCT	CRI	Luminous flux	Luminous efficacy
SPL600	600W	2200~ 6500K	70~85ra	66000	105~115lm/w
SPL1000	1000W	2200~ 6500K	70~85ra	110000	105~115lm/w
SPL1200	1200W	2200~ 6500K	70~85ra	132000	105~115lm/w

LIGHT DISTRIBUTION CURVE
(Main)

LAMP STRUCTURE

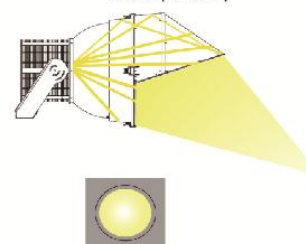
Lamp explosive view



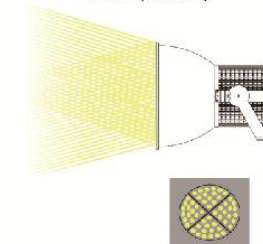
GLARE PREVENTION

Professional optical design : uniform lighting surface, provide even light spot.

KCOB sports lamp



Other sports lamp



VS

Glass cover, one light source
Singular lighting system

- Uniform lumen output ;
- AR glass cover, 95% transmittance;
- Impact proof, no aging risk, suitable for long term outdoor applications;
- Accurate beam angle;

PC lens, multiple SMD chips array

- Brightness differed by each SMD chip, not good uniformity;
- PC lens aged easily and not good for impact resistance;
- The curve will be changed obviously by the deformation of PC Lens.
- Lumen decay after long-term work;

K-COB LED RETROFIT KIT

SPECIFICATION

Features

- Easy installation with E40 (E26) holder&internal driver;
- Compact structure with modern outlook design, can be used as either lamp or luminaire;
- Aluminum fins with built-in heat pipe (optional). Maximum power reaches 150w;
- Different B.A optional, suitable for museum, hotel, gallery, exhibition, store, restaurant etc.



Item No.	Power consumption	Voltage	Luminous Efficiency	CCT	CRI	B.A
BB1-80	80w	100~280v	110lm/w	2000~6500K	70/80/90ra	38°
BB1-100	100w	100~280v	110lm/w	2000~6500K	70/80/90ra	38°
BB1-150	150w	100~280v	110lm/w	2000~6500K	70/80/90ra	38°



Item No.	Power consumption	Voltage	Luminous Efficiency	CCT	CRI	B.A
BB2-80	80w	100~280v	130lm/w	2000~6500K	70/80/90ra	90°/120°
BB2-100	100w	100~280v	130lm/w	2000~6500K	70/80/90ra	90°/120°
BB2-150	150w	100~280v	130lm/w	2000~6500K	70/80/90ra	90°/120°



Item No.	Power consumption	Voltage	Luminous Efficiency	CCT	CRI	B.A
BB3-80	80w	100~280v	110lm/w	2000~6500K	70/80/90ra	90°/120°
BB3-100	100w	100~280v	110lm/w	2000~6500K	70/80/90ra	90°/120°
BB3-150	150w	100~280v	110lm/w	2000~6500K	70/80/90ra	90°/120°

K-COB HIGH MAST LIGHT

SPECIFICATION

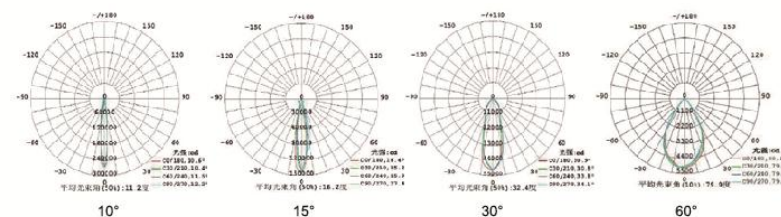
Features

- Delicate distribution: small KCOB light source with high-effective aluminum reflector, precise B.A suitable for various high mast lighting applications;
- Maintenance free: built-in inventronics driver, top quality;
- Housing: made of die casting aluminum with electrophoresis treatment, anti-corrosion protection and IP66;
- HPS color: provide 2000~2200K CCT optional, same as sodium lamp;
- Smart control system compatible;



Item No.	Power consumption	CCT	CRI	Luminous flux	Luminous efficacy
HM200	200W	2200~ 6500K	70~85ra	23000lm	105~125lm/w
HM300	300W	2200~ 6500K	70~85ra	34500lm	105~125lm/w
HM400	400W	2200~ 6500K	70~85ra	46000lm	105~125lm/w
HM500	500W	2200~ 6500K	70~85ra	57500lm	105~125lm/w

LIGHT DISTRIBUTION CURVE



K-COB HIGH MAST LIGHT

SPECIFICATION

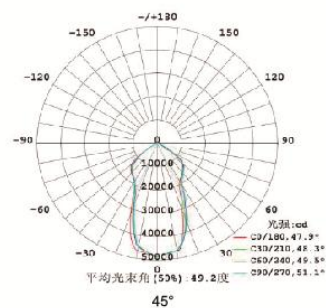
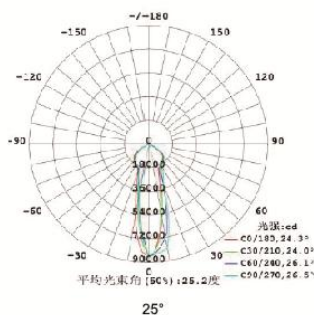
Features



- Delicate distribution: small KCOB light source with high-effective aluminum reflector; two kinds of B.A. suitable for different types application ;
- Maintenance free: built-in inventronics driver, top quality;
- Housing: made of die casting aluminum with heatpipe, IP66 and anti-corrosion protection;
- HPS color: provide 2000~2200K CCT optional, same as sodium lamp;
- Smart control system compatible;

Item No.	Power consumption	CCT	CRI	Luminous flux	Luminous efficacy
HM800	800W	2200~ 6500K	70~85ra	92000lm	105~125lm/w
HM1000	1000W	2200~ 6500K	70~85ra	115000lm	105~125lm/w

LIGHT DISTRIBUTION CURVE



K-COB HIGH BAY LIGHT

SPECIFICATION

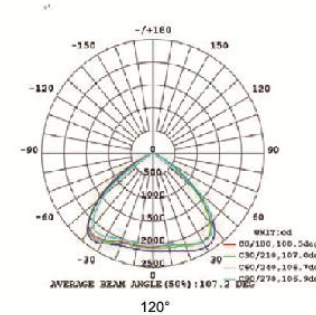
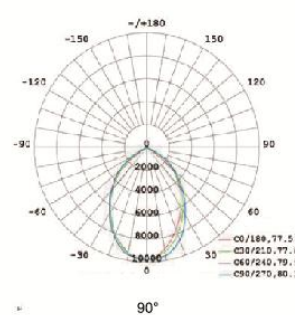
Features



- Prisma glass lens, glare free and no ground shadow;
- Laser ceramic light source equipped with multi-phase changing heat sink, reliable quality;
- Waterproof product(IP65);
- Low temperature operating with the optimal heat-dissipation system;
- Suitable for factories, warehouses, gas stations, etc., which are dusty, humid, and have the high ceiling;

Item No.	Power consumption	CCT	CRI	Luminous flux	Luminous
HB100	100W	2200~ 6500K	70~80ra	11750lm	105~130lm/w
HB150	150W	2200~ 6500K	70~80ra	17625lm	105~130lm/w
HB200	200W	2200~ 6500K	70~80ra	23500lm	105~130lm/w
HB250	250W	2200~ 6500K	70~80ra	29375lm	105~130lm/w
HB300	300W	2200~ 6500K	70~80ra	35250lm	105~130lm/w

LIGHT DISTRIBUTION CURVE



K-COB DOWN LIGHT

SPECIFICATION

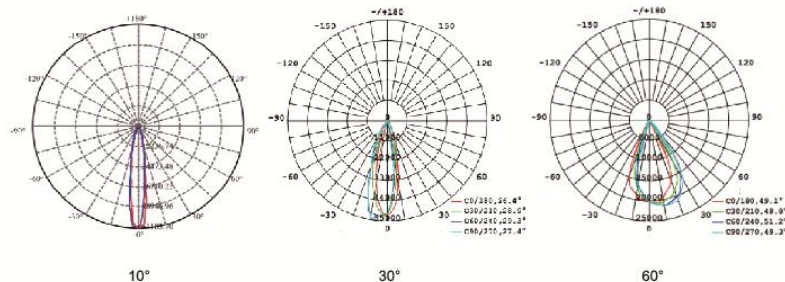
Features



- Exclusive laser ceramic light source&multi phase changing heatsink, good reliability;
- Hide-in luminaire design, a total glare prevention solution;
- Multiple beam angle, suitable for various high ceiling applications, such as terminal, train station, and indoor stadium;
- N-type explosion-proof level;

Item No.	Power consumption	CCT	CRI	Luminous flux	Luminous efficacy
DL100	100W	2200~ 6500K	70~85ra	8500lm	80~90lm/w
DL200	200W	2200~ 6500K	70~85ra	17000lm	80~90lm/w
DL250	250W	2200~ 6500K	70~85ra	21250lm	80~90lm/w

LIGHT DISTRIBUTION CURVE



K-COB EXPLOSIVE PROOF LIGHT

SPECIFICATION

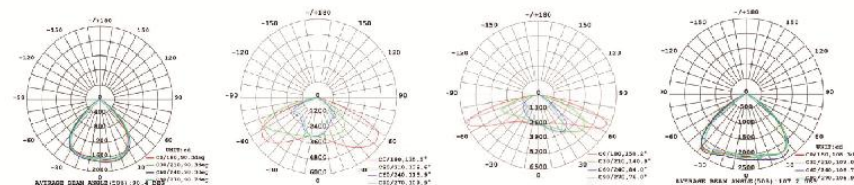
Features



- Reliable structure: 3 individual chambers for PSU, cable, and light source;
- Suitable for explosive gas environment IIA, IIB and IIC, temperature range T1-T6;
- Applications: chemical workshop, mine and oil field, etc.
- Certification approved by C.N ion-proof equipment test&quality center (certification processing);

Item No.	Power consumption	CCT	CRI	Luminous flux	Luminous efficacy
EXD100	100W	2200~ 6500K	70~85ra	10000lm	90~100lm/w
EXD150	150W	2200~ 6500K	70~85ra	15000lm	90~100lm/w
EXD200	200W	2200~ 6500K	70~85ra	20000lm	90~100lm/w

LIGHT DISTRIBUTION CURVE



K-COB FISHING LAMP

SPECIFICATION

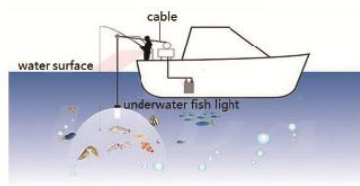
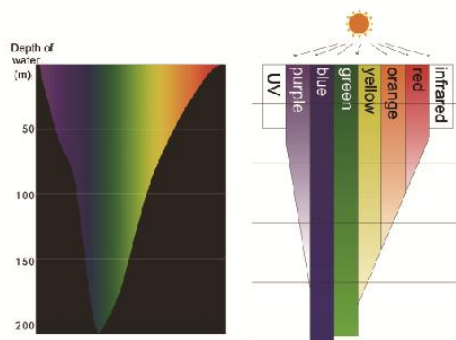


Features

- New military anticorrosive heat sink and high pressure-resistant material, workable in water depth >100m;
- The light color spectrum of light source is customizable according to different sea areas and fishes;
- Instant lighting;
- External power supply, high reliability;

Item No.	Beam angle	Rated power	Luminous flux	Input voltage	Light color	Heat sink	IP Level	Dimension	Weight
FS1200	360°	1200w	132000lm	AC90~305v	W/R/G/B	Water cooling	IP68	Φ190*400	10KG

INFORMATION



* Simulating working condition

K-COB FLOOD LIGHT

SPECIFICATION

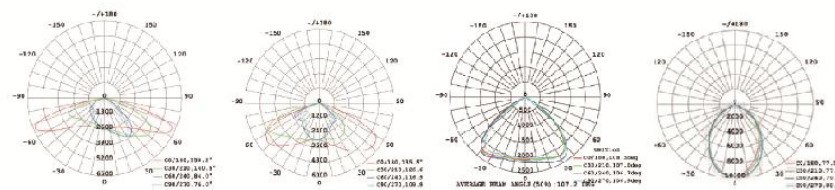


Features

- Various light distribution by high boron glass lens : suitable for street / tunnel lighting and regular floodlighting;
- Built-in Inventronics driver, top quality (external driver model is available too);
- Compact housing structure with multi-phase changing heatsink, IP65 standard;
- Smart control system compatible;

Item No.	Power consumption	CCT	CRI	Luminous flux	Luminous efficacy
TL100	100W	2200~ 6500K	70~85ra	13000lm	110~150lm/w
TL200	200W	2200~ 6500K	70~85ra	26000lm	110~150lm/w
TL250	250W	2200~ 6500K	70~85ra	32500lm	110~150lm/w

LIGHT DISTRIBUTION CURVE



K-COB STREET LIGHT

SPECIFICATION

Features



- Various curve by high boron glass lens : suitable for different types of street;
- Seperate maintainance chamber: better protection for the electrical components inside, IP65 standard;
- Multi-phase changing(optional) heatsink, provide good reliability;
- Photocell site reserved and smart control system compatible;

Item No.	Power consumption	CCT	CRI	Luminous flux	Luminous efficacy
STL100	100W	2200~ 6500K	70~85ra	13000lm	110~150lm/w
STL150	150W	2200~ 6500K	70~85ra	19500lm	110~150lm/w
STL200	200W	2200~ 6500K	70~85ra	26000lm	110~150lm/w
STL250	250W	2200~ 6500K	70~85ra	32500lm	110~150lm/w

LIGHT DISTRIBUTION CURVE

