



EX

Explosion-proof

EX Products Concourse



ATEX IECEx UL844 (CID1 CID2 CIID1 CIID2)



LUMINA

GLOW



LUMINA hazardous location lighting overall solution

It's a great honor for LUMINA to provide hazardous location lighting solutions to you. Shoulder the mutual risks of R&D, technology as certification, and share the achievement of the markets & premium products. Nowadays, the notion of safety is widely spread. That safety matters the most is deeply rooted in us. LUMINA not only offers authoritative Ex certified LED products but also excellent service as following:



With the help of deep communication on your requirements and where the lights are used, LUMINA can promptly design the proper LED product with good quality to you, including the complete lighting solutions.



PART 2. In-sales

LUMINA has a strict quality control system and standardized service in the sales process, so we could quickly provide our partners with application technology supports and meet our customers' various special requirements.

PART 3. After sales service

Our professional after-sales engineers provide 4~8 hours prompt response service for the whole day. The performance of contracts is not the end, but it is the beginning of next cooperation.

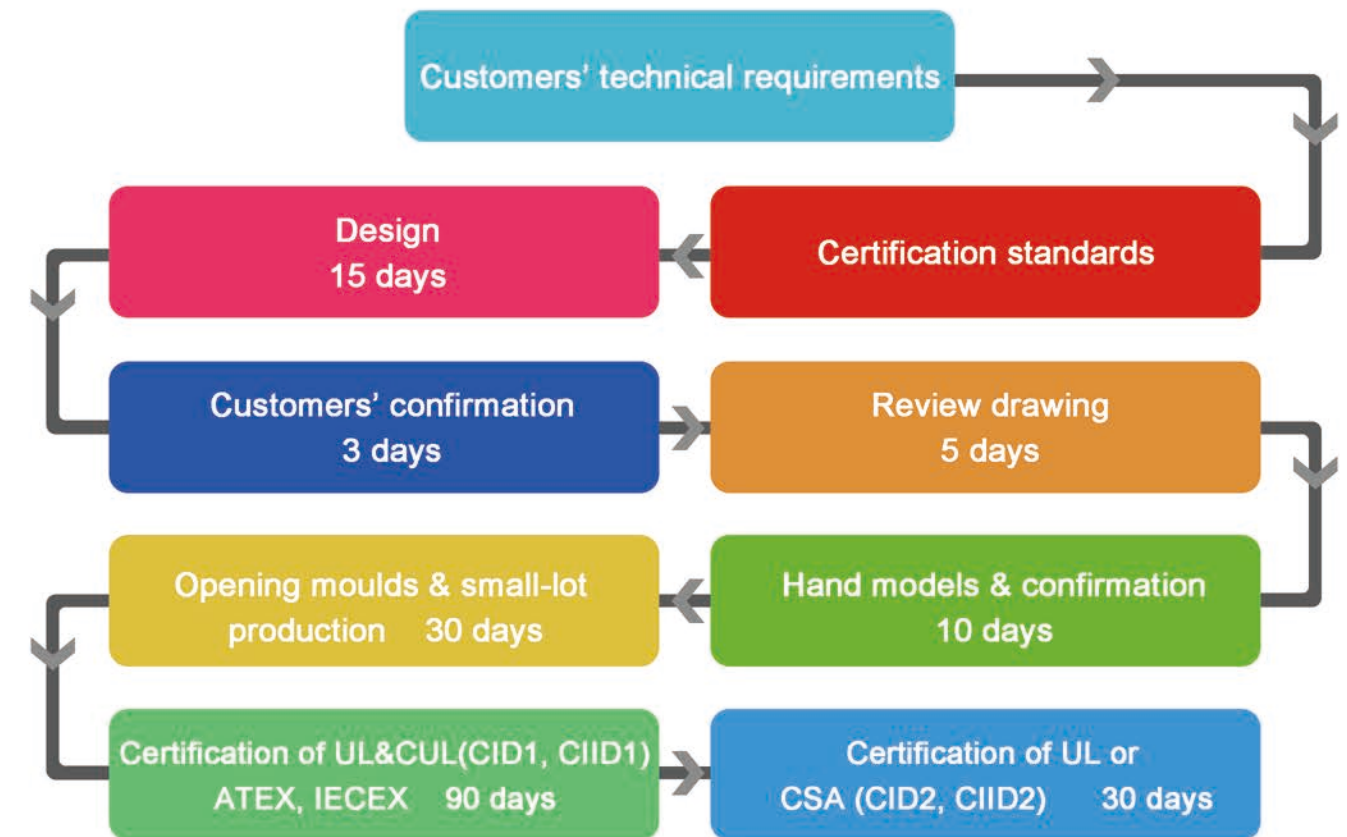
Special services for strategic partners

1 OEM services: Only if the annual order quantity amount is 20000pcs per item in LED lights, you will gain the service (free mould cost for designed LED products reducing 30% cost for our partners)
Meanwhile, for your customed item, they are available in stocks with exclusive rights in your market

2 ODM services: Base on your requirement, we can design and finish the customed LED products for free, if your ODM product is 20000pcs per year.

At the same time, you own the exclusive rights in the appointed countries. Moreover, your ODM goods is available in stocks.

ODM flow chart



3 Exclusive sales services: The exclusive sales right of one item or one product series is given only the annual sales reach 10,000pcs, and our partners can apply to Multiple Listing to get the independent certificates and certificate No., and we don't charge any fee for it.

4 OBM: Our partners are authorized to sell in the name of LUMINA according to LUMINA's uniform prices, use LUMINA's domain and company mailbox. A regional exclusive sales right is available if the annual sales reach 10,000pcs.

Best wishes to all LUMINA partners for our win-win cooperation!



Chemical Factory in Mexico



Refinery in USA



Offshore platform in Singapore



USA Shell Gas station



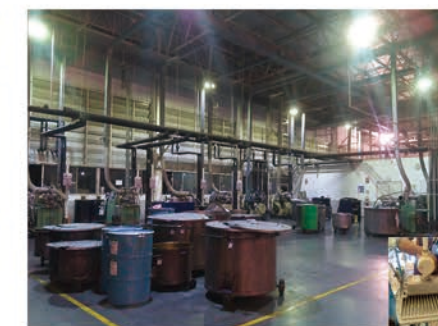
Gas station in Greece



Mongolia Gas station



CPCC - Petrol Oil Storage Area



Ink Plant in Thailand



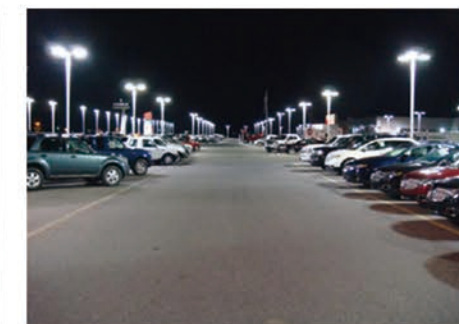
Manufacturing Facility in UK



Sweden ANMFC DOCK



Mongolia MT Gas Enterprise



USA BMW Car Parking Area

The method base on these assumptions:

- 1、 Maintaining lumens on working flat is half of new lamp sources lumens in the new luminaire;
- 2、 The lighting room size is of moderate type, room surface reflector coefficient is of moderat number. The dust in the room is normal type(For a room of moderate size type is that the height between the working flat and luminiare bottom MH is less than half of Min size of room);
- 3、 Only one type luminaire used in the given room(when MH is larger than 6m. the high hung lamp is recommended, when MH less than 6m,low hun lamp is recommended).

■Calculation procedure

- 1、 Fing the matching flux value A from Normal Lighting engineering institute IES industrial lighting recommended value table;
- 2、 Gain lumens value b for the lamp sources supplier;
- 3、 Lamp maintaining lumens C can be available from rated lamp sources value B by 0.5;
- 4、 Luminaire number $N = \frac{\text{Room area}(L \times W)}{\text{Lamp source smaintaining lumens } C} \times \text{remcommendedfluxvalue } A$
- 5、 Distance S between Luminaires = $\sqrt{\frac{\text{Room area}(L \times W)}{N \text{ luminaire number}}}$;
- 6、 When using high hung lamp,distance Sbetween luminaires should be larger than hung height;or when using low hung lamp,distance S between luminaires should be larger than 1.5 times hung height,so the distance s between luminaire is too larger,Then the more suitable lamp sources should be selected,then step 3 cycled until distance s meets request;
- 7、 Select moderate high or low hung luminaire.

International protection code



Prevent solid class

	Test	Protection
0		Inherent protection
1		Protected against solid bodies larger than 50mm(eg:accidental contact whth the hand)
2		Protected against solid bodies larger than 12.5mm (eg:finger)
3		Protected against solid bodies larger than 2.5mm (eg:tools,wires)
4		Completely protected against dust
5		Protected against solid bodies larger than 1mm (eg:fine tools,small wires)
6		Can not completely protected against dust,but dust entried will not effect the normal running of electrical equipment

Water-proof class

	Test	Protection
0		Inherent protection
1		Protected against vertically -falling drops of water (condensation)
2		Protected against drops of water falling at up to 15° from the vertical
3		Protected against drops of rainwater at up to 60° from the vertical
4		Protected against projections of water from all directions
5		Rotected against jets of water from all directions
6		Completely protected against jets of water of similar force to heavy waves
7		Protected against the effects of immersion
8		Protected against the effects of Prolonged immersion underspecified conditions

Dust tight type (A type electrical apparatus)

Zone 20, 21, 22	Zone22
IP6X Mark DIP A20 or DIP A21	IP5X Mark DIP A22

Dust tight type (B type electrical apparatus)

Zone 20, 21, 22	Zone22
Dust tight type refer to stipulation 20.4.3.4 in GB 12476.1.Complement requests refer to stipulation 13 in GB 13476.1.Mark DIP B20 or DIP B21	Dust proof type refer to stipulation20.4.3.5 in GB 12476.1 is not suitable.Mark DIP B22.

A type selection of prevent dust Ignition electrical apparatus

Dust type	Zone 22 or zone 21	Zone 22
Conductivity	DIP A20 or DIP A21	DIP A21(IP6X)
Non Conductivity	DIP A20 or DIP A21	DIP A22 or DIP A21

B Type selection of prevent dust ignition electrical apparatus

Dust type	Zone 22 or zone 21	Zone 22
Conductivity	DIP B20 or DIP B21	DIP B21
Non Conductivity	DIP B20 or DIP B21	DIP B22 or DIP B21

Protection methods of dust explosion-proof electrical apparatus

codc No.Test	IEC code	Explosion-proof type	Applieation area	Ex-mark example	Device example
CB 12476.1	IEC61241-1-1	Electrical apparatus for use ni the presence of combustib le dust Part1-1: electrical apparatus protected by enclosure and surface temperature limitation Specifica tion for apparatus part 1:electrical apparatus techni cal requirements	zone 20 zone 21 zone 22	DIP A21 TA 170℃ (orTA,T3)	Switch,motor, indicating device, control system, transformer ,fuse, socket and lighting lamp
CB 12476.2	IEC61241-1-2	Electrical apparatus for use ni the presence of combustib le dust Part1-2: electrical apparatus protected by enclosure and surface temperature limitation Specifica tion for apparatus part 2:electrical apparatus choos ing installing safeguarding	—	—	Switch,motor, indicating device, lighting lamp, electric heater, alarming,indicating, device,control system.

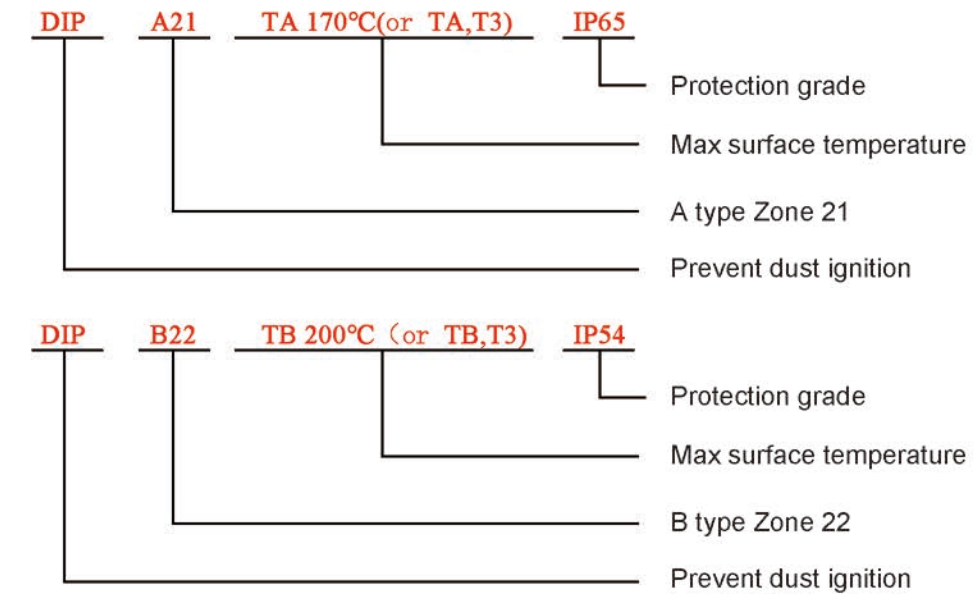
Explosive atmosphere or vapor category and temperature classification

Temperature classification	T1		T2		T3	T4	T5	T6	
Soits	I	Soits		-		-	-	-	
	II A	Acetic acid Acetone Acetonitrile Allyl acylfluoride Ammonia Aniline Ethyl Benzene Methyl styrene trimethy lbenzene Methyl propyl ketone	Cresol Bromine ethane Isobutane Butyryl fluorid Fluorine methane Propane Chloro ethane Petroleum Nitrogen (mixed) Benzene	Cyclopentane Methyl cyclopentane Propionic acid Acetylene Methanol Metlay formate Epoxy ethane Diisopropyl ether	Propyl alcohol Cyclohexanone Ethene Furan Butane Methylamine Chloride ethanol Ethyl acrylate	pentane Methyl cyclohexane Petroleum (Including gasoline) Naphtha Diesel Kerosene Hexane Ethanethiol Amyl alcohol Chlorobutane Tetrahydro-thiophene	Acetald-ehyde	-	Ethyl nitrite
	II B	Propyne (allylene) Cyclopropane Acrylonitrile	Hydrogen cyanide Oven gas	Butadiene-1.3 Epoxy ethane Methyl acrylate Furan	Methyl hydrofura- lcohol Butenoic aldehyde Ethanethiol	Ethyl methyl ether Ethyl ether Butyl ether Tetraflu- roethylene	-	-	-
	II C	Hydrogen		Ethane	-	-	Carbon disulfide	-	-

Electrical apparatus for use in presence of combustible dust

Zone 20	Zone 21	Zone 22
Areas and inside container under normal working, combustible dust appear continuously or frequently the mount can from flammable dust and atmosphere misture,and/or maybe from unlimited,thick dust layer.	Areas,maybe appear enough dust to form flammable dust and atmosphere misture not divided to Zone 20.The zone including:the adjacent areas to dust pour and let off,areas with dust layer and maybe produce flammable dust and atmosphere mixture under normal working situation.	Under abnormal condition,in the area,fla- mmable dust appear once in a while and exist in short once in a while or maybe exist dust layer and exist mixture of flam- mable dust layer and Accumulation cannot be eliminated,the area should be divided into zone 21.

Ex - mark example of electrical apparatus for use in presence of combustible dust



Electrical apparatus protection method in GB3836

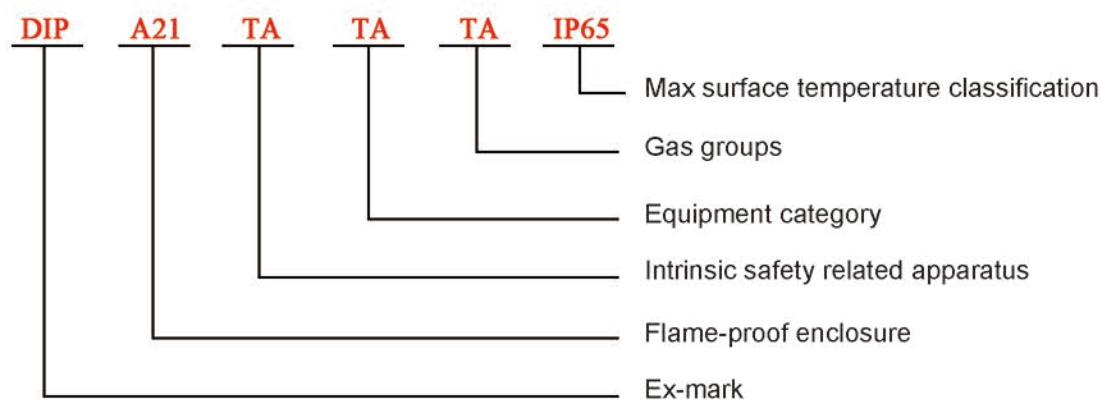
Code NO.	Equivalent foreign and international standard	Explosion-proof type	Explosion-proof philosophy	Illustration method
GB3836.1	IEC60079-0 EN50014 FM3600 UL2279	General request		
GB3836.2	IEC60079-1 EN50018 FM3600 UL2279	Flameproof "d"	Parts which can ignite an explosive atmosphere are placed in enclosure,if there is and ignition of an explosive mixture internal,will withstand the pressure and prevent the explosion being transmitted to the atmosphere around enclosure.	
GB3836.3	IEC60079-7 EN50019 FM3600 UL2279	Increased Safety "e"	Additional measures are taken to achieve a higher level of safety and avoid the risk of impermissibly high temperatures and the occurrence of sparks and arcs internally or on external parts of electrical equipment,which in normal use produce neither sparks,arcs nor dangerous temperatures.	
GB3836.4	IEC60079-11 EN50020/39 FM3601 UL2279	Intrinsic Safety "i"	The equipment ptaced in the hazardous area contains only intrinsically safe circuits. Acircuit is intrinsically safe if no sparks of thermal effects occur under established conditions(including the normal operating and certain fault conditions),which could lead to the ignition of a given explosive atmosphere.	
GB3836.5	IEC60079-3 EN50016 FM3620 NFPA496	Pressurized apparatus "p"	The formation of an explosive atmosphere inside an enclosure is previnted by using a protective gas to maintain an internal over pressure relative to the surrounding atmosphere,and if necessary,the intenor of the enclosure is permanenuy suppned whth protective gas so than there is dilution of flammable mixtures.	

Code NO.	Equivalent foreign and international standard	Explosion-proof type	Explosion-proof philosophy	Illustration method
GB3836.6	IEC60079-6 EN50015 FM3600 UL2279	Oil immersion "o"	Electrical equipment or parts of electrical equipment are immersed in a protective liquid in such a way that an explosive atmosphere above the surface of outside the enclosure can not be ighited.	
GB3836.7	IEC60079-5 EN50017 FM3600 UL2279	Powder filling "q"	Type of protection by which the equipment parts that could become an ignition source are fixed in position and completely surrounded by finely ground solids,so as to prevent ignition of an external explosive atmosphere.	
GB3836.8	IEC60079-15 EN50021 FM3600 UL2279	Protection method "n"	Electrical equipment is not capable of igniting a surrounding explosive atmosphere(in normal operation and under defined abnormal operating conditions).	
GB3836.9	IEC60079-18 EN50028 FM3600 UL2279	Moulding "m"	Parts which can ignite an explosive atmosphere are embedded in casting compound so that the explosive atmosphere cannot be ignited.	

The explosive gas environment uses the classification of dangerous place of electric equipment

Zone 0	Zone 1	Zone 2
In this areas, explosive atmosphere appears continuously and exist in a long period.	In this areas, explosive atmosphere is likely maybe present under normal operation.	In this areas, explosioive atmosphere maybe not present, or maybe present but for short period only.

Ex-mark of electrical apparatus for explosive gas atmosphere example



Max surface temperature classification of II class electrical apparatus

Temperature classification	Max surface temperature
T1	450
T2	300
T3	200
T4	135
T5	100
T6	85

Explosive gas atmosphere classification

Electrical apparatus Classification	Typical gas	Gas groups	Maxi safety creeping clearance	Mix igniting current
I group	Methane			
II group	Propane	A	MESG>0.9mm	MIC ratio>0.8
II group II B	Acetylene	B	MESG0.5mm-0.9mm	MIC ratio:0.45-0.8
II group II C	Hydrogen/Acetylene	C	MESG<0.5mm	MIC ratio<0.45

I Group :electrical apparatus for mining/under ground(methane);

II Group:electrical apparatus for industries(other explosive atmosphere areas except coal mine).

*Can only suitable for group flame-proof enclosure "d" and intrinsic safety enclosure "i" and partial "n" type electrical apparatus.

Zone classification and installation specifications

GB3836.14-2000 Electrical apparatus for explosive gas atmosphere-part 14 :hazardous areas classification

GB3836.15-2000 Electrical apparatus for explosive gas atmosphere-part 15: electrical installations hazardous areas (other than mines)

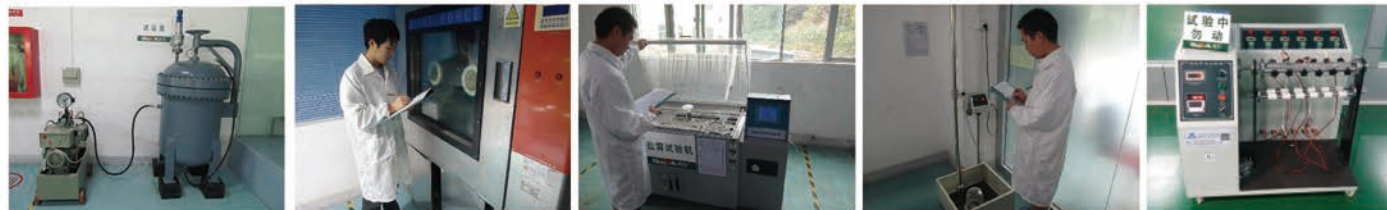
Technology Center Laboratory



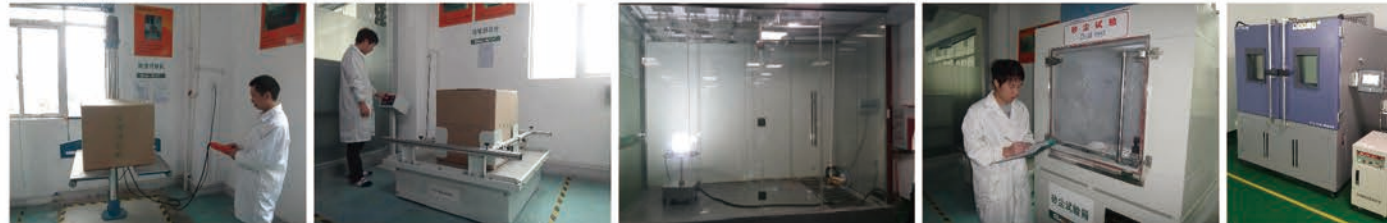
①UL laboratory ②UL authorization ③Spectrum sphere ball



④LEDs aging test line ⑤Photoelectric integrated testing system ⑥EMC shielded room ⑦Long-term aging test



⑧Hydrostatic pressure testing system ⑨Constant temperature/Voltage box ⑩Salt spray testing machine ⑪Falling-ball impact test machine ⑫Wire bending test machine



⑬Fall-off test machine ⑭Transport vibrator table ⑮IP waterproof test ⑯Sanddust test ⑰High/low temp test



⑱Light source stroboscopic test system ⑲LED driver test ⑳Switch impact test ㉑Withstanding insulation voltage test ㉒Volt insulation test



㉓Needle-flame test ㉔Glow-wire tester ㉕Electrical parameter test ㉖Lightning surge test ㉗Insulation resistance test



CES-J20S LED Explosion-proof Light(square)

- Model No.: CES-J20S
- Power: 20W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 24pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K
5500-6000K
- Beam angle: 95°
- Dimension: 200mm×200mm×185mm

ATEX:ZONE 1, ZONE 21
UL844 -CID2 E475887
DLC -P2VFWHMZ
UL1598A:E495071
CE : POCE11030321RS
C-TICK(RSZ140729550-09)
RoHS: POCE11030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-J30S LED Explosion-proof Light(square)

- Model No.: CES-J30S
- Power: 30W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 24pcs
- Light Efficiency: 120m/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K
5500-6000K
- Beam angle: 95°
- Dimension: 200mm×200mm×185mm

ATEX:ZONE 1, ZONE 21
UL844 -CID2 E475887
DLC -P2VFWHMZ
UL1598A:E495071
CE : POCE11030321RS
C-TICK(RSZ140729550-09)
RoHS: POCE11030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-J40S LED Explosion-proof Light(square)

- Model No.: CES-J40S
- Power: 40W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 24pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K
5500-6000K
- Beam angle: 95°
- Dimension: 200mm×200mm×185mm

ATEX:ZONE 1, ZONE 21
UL844 -CID2 E475887
DLC -P2VFWHMZ
UL1598A:E495071
CE : POCE11030321RS
C-TICK(RSZ140729550-09)
RoHS: POCE11030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-J60 LED Explosion-proof Light(square)

- Model No.: CES-J60
- Power: 60W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 84pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K
5500-6000K
- Beam angle: 95°
- Dimension: 300mm×300mm×185mm

ATEX:ZONE 1, ZONE 21
UL844 -CID2 E475887
DLC -P2VFWHMZ
UL1598A:E495071
CE : POCE11030321RS
C-TICK(RSZ140729550-09)
RoHS: POCE11030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-J80 LED Explosion-proof Light(square)

- Model No.: CES-J80
- Power: 80W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 84pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K
5500-6000K
- Beam angle: 95°
- Dimension: 300mm×300mm×185mm

ATEX:ZONE 1, ZONE 21
UL844 -CID2 E475887
DLC -P2VFWHMZ
UL1598A:E495071
CE : POCE11030321RS
C-TICK(RSZ140729550-09)
RoHS: POCE11030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-J100 LED Explosion-proof Light(square)

- Model No.: CES-J100
- Optional Power: 100W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 84pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K
5500-6000K
- Beam angle: 95°
- Dimension: 300mm×300mm

ATEX:ZONE 1, ZONE 21
UL844 -CID2 E475887
DLC -P2VFWHMZ
UL1598A:E495071
CE : POCE11030321RS
C-TICK(RSZ140729550-09)
RoHS: POCE11030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-J120 LED Explosion-proof Light(square)

- Model No.: CES-J120
- Power: 120W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 156pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K
5500-6000K
- Beam angle: 95°
- Dimension: 400mm×400mm×185mm

ATEX:ZONE 1, ZONE 21
UL844 -CID2 E475887
DLC -P2VFWHMZ
UL1598A:E495071
CE : POCE11030321RS
C-TICK(RSZ140729550-09)
RoHS: POCE11030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-J150 LED Explosion-proof Light(square)

- Model No.: CES-J150
- Power: 150W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 156pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K
5500-6000K
- Beam angle: 95°
- Dimension: 400mm×400mm×185mm

ATEX:ZONE 1, ZONE 21
UL844 -CID2 E475887
DLC -P2VFWHMZ
UL1598A:E495071
CE : POCE11030321RS
C-TICK(RSZ140729550-09)
RoHS: POCE11030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-J200 LED Explosion-proof Light(square)

- Model No.: CES-J200
- Power: 185W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 156pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K
5500-6000K
- Beam angle: 95°
- Dimension: 400mm×400mm×185mm

ATEX:ZONE 1, ZONE 21
UL844 -CID2 E475887
DLC -P2VFWHMZ
UL1598A:E495071
CE : POCE11030321RS
C-TICK(RSZ140729550-09)
RoHS: POCE11030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786





CES-J20S(36T)
LED Explosion-proof Light(square)

- Model No.: CES-J20S
- Power: 20W*2
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 36pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 35°, 60°, 90°, 120°
- Dimension: 200mm×200mm×185mm

UL, CUL, ATEX, IECEx



CES-J30S(36T)
LED Explosion-proof Light(square)

- Model No.: CES-J30S
- Power: 30W*2
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 36pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 35°, 60°, 90°, 120°
- Dimension: 200mm×200mm×185mm

UL, CUL, ATEX, IECEx



CES-J40S(36T)
LED Explosion-proof Light(square)

- Model No.: CES-J40S
- Power: 40W*2
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 36pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 35°, 60°, 90°, 120°
- Dimension: 200mm×200mm×185mm

UL, CUL, ATEX, IECEx



CES-J60(108T)
LED Explosion-proof Light(square)

- Model No.: CES-J60
- Power: 60W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 108pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 35°, 60°, 90°, 120°
- Dimension: 300mm×300mm×185mm

UL, CUL, ATEX, IECEx



CES-J80(108T)
LED Explosion-proof Light(square)

- Model No.: CES-J80
- Power: 80W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 108pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 35°, 60°, 90°, 120°
- Dimension: 300mm×300mm×185mm

UL, CUL, ATEX, IECEx



CES-J100(108T)
LED Explosion-proof Light(square)

- Model No.: CES-J100
- Power: 100W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 108pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 35°, 60°, 90°, 120°
- Dimension: 300mm×300mm×185mm

UL, CUL, ATEX, IECEx



CES-J120(192T)
LED Explosion-proof Light(square)

- Model No.: CES-J120
- Power: 120W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 192pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 35°, 60°, 90°, 120°
- Dimension: 400mm×400mm×185mm

UL, CUL, ATEX, IECEx



CES-J150(192T)
LED Explosion-proof Light(square)

- Model No.: CES-J150
- Power: 150W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 192pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 35°, 60°, 90°, 120°
- Dimension: 400mm×400mm×185mm

UL, CUL, ATEX, IECEx



CES-J200(192T)
LED Explosion-proof Light(square)

- Model No.: CES-J200
- Power: 185W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 192pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 35°, 60°, 90°, 120°
- Dimension: 400mm×400mm×185mm

UL, CUL, ATEX, IECEx



CES-GB10(T)
LED Explosion proof Light(round)

- Model No.: CES-GB10
- Optional Power: 10W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×12pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 100mm×100mm

UL, CUL, ATEX, IECEx



CES-GB30(T)
LED Explosion proof Light(round)

- Model No.: CES-GB30
- Optional Power: 30W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×48pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 190mm×190mm

UL, CUL, ATEX, IECEx



CES-GB40(T)
LED Explosion proof Light(round)

- Model No.: CES-GB40
- Optional Power: 40W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×60pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 200mm×200mm

UL, CUL, ATEX, IECEx



CES-GB50(T)
LED Explosion proof Light(round)

- Model No.: CES-GB50
- Optional Power: 50W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×60pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 190mm×190mm

UL, CUL, ATEX, IECEx



CES-GB60(T)
LED Explosion proof Light(round)

- Model No.: CES-GB60
- Optional Power: 60W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×84pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 200mm×200mm

UL, CUL, ATEX, IECEx



CES-GB70(T)
LED Explosion proof Light(round)

- Model No.: CES-GB70
- Optional Power: 70W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×84pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 220mm×220mm

UL, CUL, ATEX, IECEx



CES-GB80(T)
LED Explosion proof Light(round)

- Model No.: CES-GB80
- Optional Power: 80W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×121pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 300mm×300mm

UL, CUL, ATEX, IECEx



CES-GB100(T)
LED Explosion proof Light(round)

- Model No.: CES-GB100
- Optional Power: 100W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×121pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 300mm×300mm

UL, CUL, ATEX, IECEx



CES-GB185(T)
LED Explosion proof Light(round)

- Model No.: CES-GB185
- Optional Power: 185W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×240pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 460mm×460mm

UL, CUL, ATEX, IECEx



CES-GB200(T)
LED Explosion proof Light(round)

- Model No.: CES-GB200
- Optional Power: 200W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030×240pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 60°, 90°, 120°
- Dimension: 460mm×460mm

UL, CUL, ATEX, IECEx



CES-XT30
LED Explosion Proof Linear Light

- Model No.: CES-XT30
- Power: 30W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030x50pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 36°, 60°, 90°
- Dimension: 607mmx78mmx107mm

CSA 250, UL 1598, CSA 137, UL 844
IEC/EN 60079-0, IEC/EN 60079-1
IEC/EN 60079-15, IEC/EN 60079-31
Class I Div 1 Group B, C, D
Class I Div 2 Group A, B, C, D
Class II Div 1 Group E, F, G
Class II Div 2 Group E, F, G
Class III, Ex d IIC T⁺
Ex nA IIC T⁺, Ex tb IIIC T⁺



CES-XT60(D)
LED Explosion Proof Linear Light

- Model No.: CES-XT60
- Power: 60W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030x100pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 36°, 60°, 90°
- Dimension: 1214mmx78mmx112mm

CSA 250, UL 1598, CSA 137, UL 844
IEC/EN 60079-0, IEC/EN 60079-1
IEC/EN 60079-15, IEC/EN 60079-31
Class I Div 1 Group B, C, D
Class I Div 2 Group A, B, C, D
Class II Div 1 Group E, F, G
Class II Div 2 Group E, F, G
Class III, Ex d IIC T⁺
Ex nA IIC T⁺, Ex tb IIIC T⁺



CES-XT60
LED Explosion Proof Linear Light

- Model No.: CES-XT60
- Power: 60W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030x72pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 36°, 60°, 90°
- Dimension: 596mmx126mmx111mm

CSA 250, UL 1598, CSA 137, UL 844
IEC/EN 60079-0, IEC/EN 60079-1
IEC/EN 60079-15, IEC/EN 60079-31
Class I Div 1 Group B, C, D
Class I Div 2 Group A, B, C, D
Class II Div 1 Group E, F, G
Class II Div 2 Group E, F, G
Class III, Ex d IIC T⁺
Ex nA IIC T⁺, Ex tb IIIC T⁺



CES-XT120(D)
LED Explosion Proof Linear Light

- Model No.: CES-XT120
- Power: 120W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030x144pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 8°, 15°, 36°, 60°, 90°
- Dimension: 1925mmx126mmx111mm

CSA 250, UL 1598, CSA 137, UL 844
IEC/EN 60079-0, IEC/EN 60079-1
IEC/EN 60079-15, IEC/EN 60079-31
Class I Div 1 Group B, C, D
Class I Div 2 Group A, B, C, D
Class II Div 1 Group E, F, G
Class II Div 2 Group E, F, G
Class III, Ex d IIC T⁺
Ex nA IIC T⁺, Ex tb IIIC T⁺



CES-X80
LED Explosion Proof Linear Light

- Model No.: CES-X80
- Power: 80W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030x72pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 45°, 120°, 140°
- Dimension: 350mmx240mmx344mm

CSA 250, UL 1598, CSA 137, UL 844
IEC/EN 60079-0, IEC/EN 60079-15
IEC/EN 60079-31
Class I Div 2 Group A, B, C, D
Class II Div 1 Group E, F, G
Class II Div 2 Group E, F, G
Class III, Ex nA IIC T⁺, Ex tb IIIC T⁺



CES-X160
LED Explosion Proof Linear Light

- Model No.: CES-X160
- Power: 160W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030x144pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 45°, 120°, 140°
- Dimension: 564mmx240mmx344mm

CSA 250, UL 1598, CSA 137, UL 844
IEC/EN 60079-0, IEC/EN 60079-15
IEC/EN 60079-31
Class I Div 2 Group A, B, C, D
Class II Div 1 Group E, F, G
Class II Div 2 Group E, F, G
Class III, Ex nA IIC T⁺, Ex tb IIIC T⁺



CES-X240
LED Explosion Proof Linear Light

- Model No.: CES-X240
- Power: 240W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030x216pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 45°, 120°, 140°
- Dimension: 846mmx240mmx344mm

CSA 250, UL 1598, CSA 137, UL 844
IEC/EN 60079-0, IEC/EN 60079-15
IEC/EN 60079-31
Class I Div 2 Group A, B, C, D
Class II Div 1 Group E, F, G
Class II Div 2 Group E, F, G
Class III, Ex nA IIC T⁺, Ex tb IIIC T⁺



CES-X320
LED Explosion Proof Linear Light

- Model No.: CES-X320
- Power: 320W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030x288pcs
- Light Efficiency: 120lm/W
- CRI: >73
- CCT: 2700-3200K, 4000-4500K, 5500-6000K
- Beam angle: 45°, 120°, 140°
- Dimension: 1200mmx240mmx344mm

CSA 250, UL 1598, CSA 137, UL 844
IEC/EN 60079-0, IEC/EN 60079-15
IEC/EN 60079-31
Class I Div 2 Group A, B, C, D
Class II Div 1 Group E, F, G
Class II Div 2 Group E, F, G
Class III, Ex nA IIC T⁺, Ex tb IIIC T⁺





CES-L20

LED Street Light

- Model No.: CES-L20
- Optional Power: 20W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 36pcs
- Light Efficiency: 100lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 400mm×250mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-L30

LED Street Light

- Model No.: CES-L30
- Optional Power: 30W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 36pcs
- Light Efficiency: 100lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 140°×80°,120°×80° with RF
- Dimension: 400mm×250mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-L40

LED Street Light

- Model No.: CES-L40
- Optional Power: 40W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 36pcs
- Light Efficiency: 100lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 400mm×250mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-L60

LED Street Light

- Model No.: CES-L60
- Optional Power: 60W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030,60pcs
- Light Efficiency: 100lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 650mm×260mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-L80

LED Street Light

- Model No.: CES-L80
- Optional Power: 80W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030,60pcs
- Light Efficiency: 100lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 650mm×260mm

UL844 :E475887
CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-L120

LED Street Light

- Model No.: CES-L120
- Optional Power: 120W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 120pcs
- Light Efficiency: 100lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 795mm×372mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786

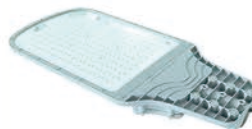


CES-L150

LED Street Light

- Model No.: CES-L150
- Optional Power: 150W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030,144pcs/120pcs
- Light Efficiency: 100lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 795mm×372mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-L200

LED Street Light

- Model No.: CES-L200
- Optional Power: 185W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030,144pcs/120pcs
- Light Efficiency: 100lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 795mm×372mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786

Explosion proof street lighting

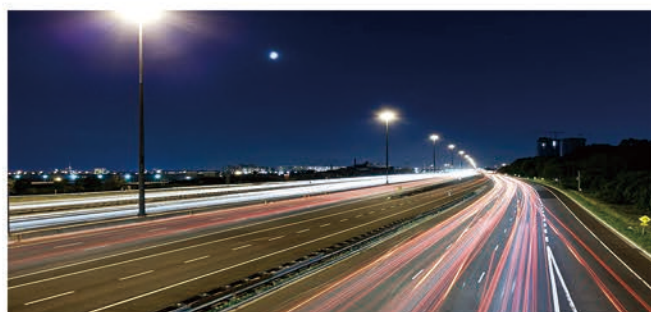


CES-L80

LED Street Light

- Model No.: CES-L80
- Optional Power: 80W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030,60pcs
- Light Efficiency: 100lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 650mm×260mm

UL844 -Class 1 Div 2, E475887
CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-P30

LED Street Light

- Model No.: CES-P30
- Optional Power: 30W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 3030, 28pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 140°×80°, 120°×80° with RF
- Dimension: 385mm×140mm×74mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-P100

LED Street Light

- Model No.: CES-P100
- Optional Power: 100W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 5050, 36pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 515mm×295mm×87mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-P120

LED Street Light

- Model No.: CES-P120
- Optional Power: 120W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 5050, 72pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 675mm×295mm×87mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786

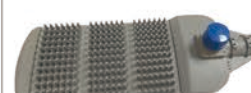


CES-P150

LED Street Light

- Model No.: CES-P150
- Optional Power: 150W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 5050, 72pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 675mm×295mm×87mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-P180

LED Street Light

- Model No.: CES-P180
- Optional Power: 180W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 5050, 108pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 835mm×295mm×87mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786

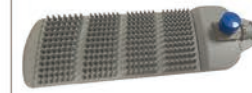


CES-P200

LED Street Light

- Model No.: CES-P200
- Optional Power: 200W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 5050, 108pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 835mm×295mm×87mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-P250

LED Street Light

- Model No.: CES-P250
- Optional Power: 250W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 5050, 144pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 965mm×295mm×87mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786



CES-P300

LED Street Light

- Model No.: CES-P300
- Optional Power: 300W
- Input Voltage: 100V-277V, 50/60Hz
- Led Chip: Bridgelux 5050, 144pcs
- Light Efficiency: 125lm/W
- CRI: >73
- CCT: 2700-3200K,4000-4500K, 5500-6000K
- Beam angle: 120°×80° with RF
- Dimension: 965mm×295mm×87mm

CE : POCEI1030321RS
C-TICK(RSZI40729550-09)
RoHs: POCEI1030301RR
SAA: SAA141958
PSE: HTS1403240089
UL1598:E357786

