



IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx SEV 19.0040X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 1	Issue 0 (2019-12-12)
Date of Issue:	2022-06-20		
Applicant:	Shenzhen CESP Co., Ltd. 6th Fl Wangcheng Bldg, Longhua St, Longhua District, Shenzhen, Guangdong 518109 China		
Equipment:	LED Luminaires, CES-EX-GB Series		
Optional accessory:			
Type of Protection:	Ex "d", "t", "op is"		
Marking:	Ex db op is IIC T4...T5...T6 Gb, Ex tb op is IIC T103 °...T98 °C...T93 °C Db		

Approved for issue on behalf of the IECEx
Certification Body:

Martin Plüss

Position:

Manager Product Certification

Signature:
(for printed version)

Date:
(for printed version)

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins Electric & Electronic Product Testing AG
Luppenstrasse 3
8320 FEHRALTORF .
Switzerland



E&E



IECEx Certificate of Conformity

Certificate No.: **IECEx SEV 19.0040X**

Page 2 of 4

Date of issue: 2022-06-20

Issue No: 1

Manufacturer: **Shenzhen CESP Co., Ltd.**
6th Fl Wangcheng Bldg, Longhua St, Longhua District, Shenzhen,
Guangdong 518109
China

Manufacturing
locations: **Shenzhen CESP Co., Ltd.**
6th Fl Wangcheng Bldg, Longhua St,
Longhua District, Shenzhen,
Guangdong 518109
China

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

IEC 60079-0:2017 Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

IEC 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

IEC 60079-28:2015 Explosive atmospheres - Part 28: Protection of equipment and transmission systems using optical radiation
Edition:2

IEC 60079-31:2013 Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
Edition:2

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

CH/SEV/ExTR19.0041/00

Quality Assessment Report:

NO/DNV/QAR21.0015/00



IECEx Certificate of Conformity

Certificate No.: **IECEx SEV 19.0040X**

Page 3 of 4

Date of issue: 2022-06-20

Issue No: 1

EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

*NOTE: This certificate was temporarily SUSPENDED over the period of **2020-06-23 to 2022-02-22** at the request of the issuing IECEx Certification Body (ExCB) following their consultation with the Applicant. This suspension does NOT affect products manufactured prior to 2020-06-23 or after 2022-02-22. Any product manufactured during the suspension period of 2020-06-23 to 2022-02-22 cannot be considered to be IECEx Certified under this Certificate. Any comment may be directed to the Applicant or ExCB.*

The CES-EX-GB Series LED Luminaires are suitable for use in hazardous location classified as Zone 1, Zone 2, Zone 21, Zone 22. They consist of "db" wiring connection chamber, "db" power chamber and "db" lighting chamber.

Wiring connection chamber is made up of JB chamber (ADC12) and power box (ADC12) with threaded joints. Inside it, terminals connections are installed to provide electrical connection. One threaded hole on the top of JB chamber is provided to install with Ex cable gland or conduit sealing devices.

Power chamber is composed of Power box (ADC12) and luminaire's body (ADC12) with cylindrical joints and fasteners. LED driver is located in this chamber and wirings are connected to the terminals by cementing method.

Lighting chamber has luminaire's body (ADC12) and lampshade (ADC12) with threaded joints, lampshade (ADC12) and transparent part (tempered glass) with cemented joint. LED arrays with lens are fixed on the luminaire's body. Wirings between the LED driver output and LED arrays are connected by cementing method.

Both external and internal earthings are provided.

The degree of protection of the enclosure is IP66, according to IEC 60079-0 and IEC 60529.

Rating:

AC 100-277 V, 50/60 Hz, 100 W / 120 W / 150 W / 185 W / 200 W

Classification of installation and use: Stationary

Ingress protection: IP66

Rated ambient temperature range (°C): -40 °C ... +45/50/55 °C

Rated ambient temperature range (°C) for Ex Components: N / A

SPECIFIC CONDITIONS OF USE: YES as shown below:

WARNING – DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE IS PRESENT

CAUTION- USE FASTENERS WITH YIELD STRESS ≥ 640 MPa

WARNING – DO NOT OPEN WHEN ENERGIZED

WARNING – ONLY USE CABLES SUITABLE FOR 85 °C

THE FLAMEPROOF JOINTS ARE NOT INTENDED TO BE REPAIRED.



IECEx Certificate of Conformity

Certificate No.: **IECEx SEV 19.0040X**

Page 4 of 4

Date of issue: 2022-06-20

Issue No: 1

DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Change of the ExCB (QAR)

Annex:

[IECEx SEV Annex 19.0040X_1_1.pdf](#)

Annex to: IECEx SEV 19.0040X

Issue No.: 1

page 1 of 2

Applicant Name: Shenzhen CESP Co., Ltd.

6th FI Wangcheng Bldg, Longhua St, Longhua District, Shenzhen,
Guangdong 518109, China

Electrical Apparatus: LED Luminaires, CES-EX-GB Series

Type specifications:

Model	Power (W)	Input voltage: AC 100 V-277 V; Frequency: 50/60 Hz;							
		Output voltage: 33 V ~ 40 V dc							
		CCT: 3000 K/4000 K/6500 K							
		Power factor:0.97							
		Output current (A)	Input current (A)	Luminous flux (LM)	Light efficiency (lm/W)	LEDs Chip	LEDs Type	Power Model	Weights (kg)
CES-EX-GB-100	100	2.45A	1A/0.37A	≥11000	110-140	252PCS	3030	HLG-100H-36A	13
CES-EX-GB-120	120	3A	1.2A/0.45A	≥13200	110-140	252PCS	3030	HLG-120H-36A	13
CES-EX-GB-150	150	3.75A	1.5A/0.6A	≥16500	110-140	252PCS	3030	HLG-150H-36A	13
CES-EX-GB-185	185	4.62A	1.86/0.7A	≥20350	110-140	252PCS	3030	HLG-185H-36A	13
CES-EX-GB-200	200	5A	2A/0.75A	≥22000	110-140	252PCS	3030	HLG-185H-36A	13

T-Class(Gas):

Ta: Model:	-40 °C ~ 45 °C	-40 °C ~ 50 °C	-40 °C ~ 55 °C
CES-EX-GB-100	T6	T6	T5
CES-EX-GB-120	T6	T6	T5
CES-EX-GB-150	T6	T5	T5
CES-EX-GB-185	T5	T5	T5
CES-EX-GB-200	T5	T5	T4

Eurofins Electric & Electronic Product Testing AG
Swiss Certification Body



Annex to: IECEx SEV 19.0040X

Issue No.: 1

page 2 of 2

Applicant Name: Shenzhen CESP Co., Ltd.

6th Fl Wangcheng Bldg, Longhua St, Longhua District, Shenzhen,
Guangdong 518109, China

Electrical Apparatus: LED Luminaires, CES-EX-GB Series

T-Class(Dust)

Model: \ Ta:	-40 °C ~ 45 °C	-40 °C ~ 50 °C	-40 °C ~ 55 °C
CES-EX-GB Series	T93 °C	T98 °C	T103 °C

Ordering information:

CES-EX-GB-W-A-B-C-D

CES: SHENZHEN CESP

EX: Explosionproof

GB: Round

W: Power

A: Configuration: 01: Line; 02: Roundness; 03: Square

B: CCT: 01: 3000K; 02: 4000K; 03: 6500K

C: Mounting: 01: Ceiling/swivel mount; 02: U bracket mount; 03: Pole mount

D: Other

Eurofins Electric & Electronic Product Testing AG
Swiss Certification Body

