

Translation

# EU-Type Examination Certificate Supplement 7

Change to Directive 2014/34/EU

Equipment or Protective System intended for use in potentially explosive atmospheres  
Directive 2014/34/EU

EU-Type Examination Certificate Number: **DMT 02 ATEX E 069**

Product: **Recessed ceiling light fitting type eLLB 20\*\*\*/\*\* \***

Manufacturer: **Cooper Crouse-Hinds GmbH**

Address: **Neuer Weg-Nord 49, 69412 Eberbach, Germany**

This supplementary certificate extends EC-Type Examination Certificate No. DMT 02 ATEX E 069 to apply to products designed and constructed in accordance with the specification set out in the Appendix of the said certificate but having any variations specified in the Appendix attached to this certificate and the documents therein referred to.

DEKRA EXAM GmbH, Notified Body number 0158, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential Report No. BVS PP 02.2045 EU.

Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

<b>EN 60079-0:2012 + A11:2013</b>	<b>General requirements</b>
<b>EN 60079-1:2007</b>	<b>Flameproof enclosure "d"</b>
<b>EN 60079-7:2007</b>	<b>Increased Safety "e"</b>
<b>EN 60079-11:2012</b>	<b>Intrinsic Safety "i"</b>
<b>EN 60079-18:2015</b>	<b>Encapsulation "m"</b>
<b>EN 60079-31:2014</b>	<b>Protection by Enclosure "t"</b>

If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the appendix to this certificate.

This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.

The marking of the product shall include the following:

 **II 2G Ex d e IIC T4 Gb**  
**II 2D Ex tb IIIC T80°C Db**  
or  
 **II 2G Ex d e IIC T4 Gb**  
**II 2D Ex tb IIIC T80°C Db**  
or  
 **II 2G Ex d e IIC T4 Gb**  
**II 2D Ex tb IIIC T80°C Db**

DEKRA EXAM GmbH  
Bochum, 2016-04-29

Signed: Simanski  
Certifier

Signed: Dr. Wittler  
Approver



13 **Appendix**  
 14 **EU-Type Examination Certificate**

**DMT 02 ATEX E 069  
 Supplement 7**

15 **Product description**  
 15.1 **Subject and type**

Recessed ceiling light fitting type eLLB 20\*\*\*\*/\*\* \*\*

Asterisk Meaning

1	Reflector	
	0	single reflector
	4	double reflector
2 – 5	Quantity and power of lamp	
	18/18	2 x 18 W lamp
	36	4 x 36 W lamp (Reflector = 4)
	36/36	2 x 36 W lamp
	58	4 x 58 W lamp (Reflector = 4)
	58/58	2 x 58 W lamp
6	Additional features	
	none	Standard luminaire
	CG-S	With monitoring module
	V-CG-S	With monitoring module
	NIB	Intelligent emergency luminaire module
	ZB	For connection to a central battery system
	NIB ZB	Intelligent emergency luminaire module and for connection to a central battery system
7	Voltage	
	none	Standard
	110V	Luminaires for use with limited input voltage range

For a complete list of possible variants see Parameters.

15.2 **Description**

With this supplement the certificate is changed to Directive 2014/34/EU.

(Annotation: In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificates referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.)

Reasons for the supplement:

- Change to Directive 2014/34/EU.
- Update of the used standards.
- Optional use of the separately tested and certified V-CG-S module instead of the CG-S module.
- Adjustment of the possible variants according to the current and complete listing in clause parameters.
- Optional use of the separately tested and certified electronic ballast type EVG 09 instead of type EVG 05.
- Removal of the separately tested and certified mains filter.



The Recessed ceiling light fitting type eLLB 20\*\*\*/\*\* \* is an explosion-protected electrical apparatus for two-pin lamps with G13 lamp cap.

The luminaire is equipped with an electronic ballast, holders, terminals, entries, sealing elements and, in certain cases, with a monitoring unit for the connection of the luminaire to an emergency lighting supply, as well as with a switch for isolating the lamp holders when the glass of the luminaire is opened.

The variants of the luminaire with 2 x 18 W, 36 W or 58 W as well as the variant with 4 x 18 W or 36 W can be supplied with separate circuits and with a separate electronic ballast, luminaire switch and terminal for the connection to a central battery system.

The variants of the luminaire with 2 x or 4 x 18 W or 36 W can be used as emergency light with an automated monitoring system together with a separated built in battery box.

Listing of all components used referring to older standards.

Listing of all components used referring to older standards

Subject and type	Certificate	Standards
Monitoring unit type CG-S module	PTB 04 ATEX 2110 U	EN 60079-0:2009 EN 60079-7:2007 EN 60079-11:2007 EN 60079-18:2009

### 15.3 Parameters

#### 15.3.1 Thermal parameters

Ambient temperature range  $-25\text{ °C} \leq T_{\text{amb}} \leq 40\text{ °C}$  for all variants with one or two lamps with 58 W each  
 $-25\text{ °C} \leq T_{\text{amb}} \leq 50\text{ °C}$  for all other variants

Temperature class T4

#### 15.3.2 Electrical parameters

##### 15.3.2.1 Standard variants

Type	Electronic ballast	Additional module	Rated voltage
eLLB 20018/18	1 x EVG 09 218	none	110 V - 254 V AC / 50-60 Hz 110 V - 250 V DC
eLLB 20036/36	1 x EVG 09 236		110 V - 254 V AC / 50-60 Hz 110 V - 250 V DC
eLLB 20058/58	1 x EVG 09 258		220 V - 254 V AC / 50-60 Hz 195 V - 250 V DC
eLLB 20418	2 x EVG 09 218		110 V - 254 V AC / 50-60 Hz 110 V - 250 V DC
eLLB 20436	2 x EVG 09 236		110 V - 254 V AC / 50-60 Hz 110 V - 250 V DC

##### 15.3.2.2 CG-S and V-CG-S variants

Type	Electronic ballast	Additional module	Rated voltage
eLLB 20018/18 CG-S (V-CG-S)	1 x EVG 09 218	CG-S (V-CG-S) module	220 V - 254 V AC / 50-60 Hz 195 V - 250 V DC
eLLB 20036/36 CG-S (V-CG-S)	1 x EVG 09 236		220 V - 254 V AC / 50-60 Hz 195 V - 250 V DC
eLLB 20058/58 CG-S (V-CG-S)	1 x EVG 09 258		220 V - 254 V AC / 50-60 Hz 195 V - 250 V DC
eLLB 20418 CG-S (V-CG-S)	2 x EVG 09 218		220 V - 254 V AC / 50-60 Hz 195 V - 250 V DC
eLLB 20436 CG-S (V-CG-S)	2 x EVG 09 236		220 V - 254 V AC / 50-60 Hz 195 V - 250 V DC



### 15.3.2.3 Central battery system variants

Type	Electronic ballast	Additional module	Rated voltage
eLLB 20036/36 ZB	2 x EVG 09 136	ZB	110 V - 254 V AC / 50-60 Hz 110 V - 250 V DC
eLLB 20058/58 ZB	2 x EVG 09 158		220 V - 254 V AC / 50-60 Hz 195 V - 250 V DC
eLLB 20418 ZB	2 x EVG 09 218		110 V - 254 V AC / 50-60 Hz 110 V - 250 V DC
eLLB 20436 ZB	2 x EVG 09 236		110 V - 254 V AC / 50-60 Hz 110 V - 250 V DC

### 15.3.2.4 Central battery system variants with emergency light module

Type	Electronic ballast	Additional module	Rated voltage
eLLB 20418 NIB ZB	2 x EVG 09 218	NIB + ZB	220 V - 254 V AC / 50-60 Hz
eLLB 20436 NIB ZB	2 x EVG 09 236		220 V - 254 V AC / 50-60 Hz
eLLB 20418 NIB ZB 110V	2 x EVG 09 218		110 V - 127 V AC / 50-60 Hz
eLLB 20436 NIB ZB 110V	2 x EVG 09 236		110 V - 127 V AC / 50-60 Hz

### 15.3.2.5 Emergency light module variants

Type	Electronic ballast	Additional module	Rated voltage
eLLB 20018/18 NIB	1 x VE/EVG 05 218	NIB	220 V - 254 V AC / 50 - 60 Hz
eLLB 20018/18 NIB 110V	1 x VE/EVG 05 218-1		110 V - 127 V AC / 50 - 60 Hz
eLLB 20036/36 NIB	1 x EVG 09 236 + 1 x VE 97 236		220 V - 254 V AC / 50 - 60 Hz
eLLB 20036/36 NIB 110V	1 x EVG 09 236 + 1x VE 97 236-1		110 V - 127 V AC / 50 - 60 Hz
eLLB 20418 NIB	1 x VE/EVG 05 218 + 1 x EVG 09 218		220 V - 254 V AC / 50 - 60 Hz
eLLB 20418 NIB 110V	1 x VE/EVG 05 218-1+ 1 x EVG 09 218		110 V - 127 V AC / 50 - 60 Hz
eLLB 20436 NIB	2 x EVG 09 236 + 1 x VE 97 236		220 V - 254 V AC / 50 - 60 Hz
eLLB 20436 NIB 110V	2 x EVG 09 236 + 1 x VE 97 236-1		110 V - 127 V AC / 50 - 60 Hz

## 16 Report Number

BVS PP 02.2045 EU, as of 29.04.2016

## 17 Specific Conditions of Use

None furthermore

## 18 Essential Health and Safety Requirements

The Essential Health and Safety Requirements covered by the standards listed under item 9.

## 19 Drawings and Documents

Drawings and documents are listed in the confidential report.



We confirm the correctness of the translation from the German original.  
In the case of arbitration only the German wording shall be valid and binding.

DEKRA EXAM GmbH  
Bochum, dated 2016-04-29  
BVS-Kir/Mu A 20080565

Certifier

Approver

