



Ref. Certif. No.

**DK-84019-M2-UL**

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

**CB TEST CERTIFICATE**

Product	Surface mounted LED Luminaire
Name and address of the applicant	L&S ITALIA S.P.A. Viale Lino Zanussi 8 Maron Di Brugnera, Pn, 33070 Italy
Name and address of the manufacturer	L&S ITALIA S.P.A. Viale Lino Zanussi 8 Maron Di Brugnera, Pn, 33070 Italy
Name and address of the factory	L&S ITALIA S.P.A. Viale Lino Zanussi 8 Maron Di Brugnera, Pn, 33070 Italy
Note: When more than one factory, please report on page 2	<input type="checkbox"/> Additional Information on page 2
Ratings and principal characteristics	12 V $\overline{\text{---}}$ 10,1 W, IP20, Class III <input checked="" type="checkbox"/> Additional Information on page 7
Trademark (if any)	L&S
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	<b>MEC-3 PIR E 600,0 mm NW</b> <input checked="" type="checkbox"/> Additional Information on page 2-6
Additional information (if necessary may also be reported on page 2)	The report was revised to include technical modifications. <input checked="" type="checkbox"/> Additional Information on page 8
A sample of the product was tested and found to be in conformity with	IEC 60598-1:2014, IEC 60598-1:2014/AMD1:2017, IEC 60598-2-1:1979, IEC 60598-2-1:1979/AMD1:1987
As shown in the Test Report Ref. No. which forms part of this Certificate	4788933917-2 issued on 2021-12-02

This CB Test Certificate is issued by the National Certification Body



- UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see [www.ul.com/ncbnames](http://www.ul.com/ncbnames)

Date: 2021-12-02  
Original Issue Date: 2019-05-28

Signature: Jan-Erik Storgaard



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**Model Detail(s):**

**Variant**

Linear Luminaires: - Speaking Code

Model a b c d e f g h

Where a designates the Type Name and can be:

BALI, IKO, KEA, KUBI, BRASILIA, KITON, FREE LED, GENEVE, GHIBLI, LUGANO, LUMI, MEC-1, MEC-3, MEC-5, MINICORNER, PERTH, SKYLINE, ELBA, LUGANO IP44, SKUBA, TOM-A, TOM-B, TOM-C, INSIDER, MEC RACK, FLY LIGHT, ARC-01, LIGHT SYSTEM, DOWN UP, OSAKA, OSLO2, M1 COLONNA, M1 S. PENS, M1 KUBIKINA, M1 NICCHIA, ACROSS, TOLEDO2, GHIBLI KS, TWILIGHT, MICROLINE 45, **MICROMECC -1**, **MICROMECC -3**.

Where b designates the Type of Version and can be:

“ “ (Blank) for Standard version

Where c designates the Type of Variant and can be:

“ “ (Blank) for Standard version

- 1 IR (infrared switch)
- 2 IR (infrared switch)

Where d designates the Type of Controller and can be:

- Blank without Switch or Sensor
- TC with Touch LED Switch
- SL with PIR Sensor LEFT
- SR with PIR Sensor RIGHT
- SC with PIR Sensor CENTRED
- IR with Infrared
- IRS with Infrared Switch
- IRD with Infrared Switch
- PIR with passive Infrared sensor

Where e designates the Type of LED Engine and can be:

A, B, C, D, K, AI, AC, AJ, AF, Q, A, AD, AE, AG, AH, AI, AM, AN, AO, AP, AS, AU, AV, AZ, E, F, G, I, M, N, R, **Blank**

Where f designates the length of the profile and can be:

100,0 mm to 3000,0 mm

Where g designates the Color Temperature and can be:

- WW LED Warm White (CCT 3000K)
- NW LED Natural White (CCT 4000K or 4200K)
- CW LED Cold White (CCT 5000K or 6000K)
- EM LED Emotion (CCT 2700÷6400K)
- EDC LED Emotion Dual Color EDC (CCT 3000÷4000K)
- RGBW with Led RGB White
- RGB with Led RGB

**Additional information (if necessary)**



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- UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
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Where **h** designates the Type of fixing and can be:  
 Blank with STANDARD fixing system  
 M with Magnet for metal (for Metal surfaces)  
 G with Double Coated Tape (for Glass surfaces)  
 W with Screw for wood (for Wood surfaces)  
 MW with Magnet & Screw (for Metal and Wood surfaces)  
 MG with Magnet & Tape (for Metal and Glass surfaces)  
 GW with Screw & Tape (for Glass and Wood surfaces)  
 MGW with Magnet, Tape & Screw (for Metal, Glass and Wood surfaces)

**Variant**

Panel Luminaires: - Speaking Code

Model a b c d e f g h

Where **a** designates the Type Name and can be:  
SOLARIS

Where **b** designates the Type of Version and can be:

Blank version "L10", standard version with frame  
 -C version "CEILING"  
 -DF version "DOUBLE FACE", similar to the standard version, but with both the side with light  
 -DFR version "DFR", similar to the standard version, but with one side with a frame more bigger than the other  
 -FL version "FRAMELESS", similar to the standard version, but with 8mm thickness  
 -L5 version "L5", similar to the standard version, but without frame once installed  
 LU version "LUMI", similar to the standard version, but with 6mm thickness  
 LUX version "LUX", similar to the "-L5" version, but with a integrated shelf  
 BACK version standard installed behind cabinet  
 -SIM2 version "SNAP-IN MODULAR", similar to the standard version, but with two sides without aluminum profile  
 -SIM3 version "SNAP-IN MODULAR", similar to the standard version, but with one side without aluminum profile  
 -UC version "UNDER CABINET"

Where **c** designates the Type of Variant and can be:

Blank Standard version  
 PLUS standard "UNDER CABINET" version  
 1 with one illuminated side  
 2 with two illuminated sides  
 3 with three illuminated sides  
 4 with four illuminated sides

Where **d** designates the Type of LED Engine and can be:

A, B, C, D, K, AI, AC, AJ, AF, Q, A, AD, AE, AG, AH, AI, AM, AN, AO, AP, AS, AU, AV, AZ, E, F, G, I, M, N, R

**Additional information (if necessary)**



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Where **e** designates the Type of Controller and can be:

- Blank without Switch or Sensor
- TC with Touch LED Switch
- SL with PIR Sensor LEFT
- SR with PIR Sensor RIGHT
- SC with PIR Sensor CENTRED
- IR with Infrared
- IRS with Infrared Switch
- IRD with Infrared Switch
- PIR with passive Infrared sensor

Where **f** designates the dimensions of the luminaire and can be:

160,0 x 160,0 mm to 3.000,0 x 2.000,0 mm or 450,0 mm to 1200,0 mm (for model -UC PLUS only)

Where **g** designates the Color Temperature and can be:

- WW LED Warm White (CCT 3000K)
- NW LED Natural White (CCT 4000K or 4200K)
- CW LED Cold White (CCT 5000K or 6000K)
- EM LED Emotion (CCT 2700÷6400K)
- EDC LED Emotion Dual Color EDC (CCT 3000÷4000K)
- RGBW with Led RGB White
- RGB with Led RGB

Where **h** designates the Type of fixing and can be:

- Blank with STANDARD fixing system
- S With Suspended fixing system

**Variant**

Panel Luminaires: - Speaking Code

Model a b c d e f g h

Where a designates the Type Name and can be:

K PANEL

Where b designates the Type of Version and can be:

- A1 with one light source
- A2 with two light sources
- B1 with one light source + wallwasher
- B2 with two light sources + wallwasher

**Additional information (if necessary)**



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Where c designates the Type of Variant and can be:  
Blank Standard version

Where d designates the Type of LED Engine and can be:  
A, B, C, D, K, AI, AC, AJ, AF, Q, A, AD, AE, AG, AH, AI, AM, AN, AO, AP, AS, AU, AV, AZ, E, F, G, I, M, N, R

Where e designates the Type of Controller and can be:  
Blank without Switch or Sensor

Where f designates the dimensions of the luminaire and can be:  
500,0 x 380,0 mm to 3.000,0 x 380,0 mm

Where g designates the Color Temperature and can be:  
WW LED Warm White (CCT 3000K)  
NW LED Natural White (CCT 4000K or 4200K)  
CW LED Cold White (CCT 5000K or 6000K)  
EM LED Emotion (CCT 2700÷6400K)  
EDC LED Emotion Dual Color EDC (CCT 3000÷4000K)  
RGBW with Led RGB White  
RGB with Led RGB

Where h designates the Type of fixing and can be:  
Blank with STANDARD fixing system - screw

**Variant**

Spot Luminaires: - Speaking Code

Model a b c d e f g h

Where a designates the Type Name and can be:  
SUNNY HE, SUNNY SQUARE HE, LUCKY-1, LUCKY-2, LUCKY-3, LUCKY-4, II LED, II LED SOUND

Where b designates the Type of Version and can be:  
Blank Standard version

Where c designates the Type of Variant and can be:  
Blank Standard version  
SQUARE with square edges

**Additional information (if necessary)**



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Where d designates the Type of LED Engine and can be:

Blank Standard version  
Z with led 12 VDC 1,3 W

Where e designates the Type of Controller and can be:

Blank without Switch or Sensor  
TC with Touch LED Switch  
SL with PIR Sensor LEFT  
SR with PIR Sensor RIGHT  
SC with PIR Sensor CENTRED  
IR with Infrared  
IRS with Infrared Switch  
IRD with Infrared Switch  
PIR with passive Infrared sensor

Where f designates the Panel dimensions for II LED and can be:

Blank with no variable dimension  
187,0 x 107,0 mm 187,0 x 107,0 mm  
200,0 x 107,0 mm 200,0 x 107,0 mm only for SOUND version

Where g designates the Color Temperature and can be:

WW LED Warm White (CCT 3000K)  
NW LED Natural White (CCT 4000K or 4200K)  
CW LED Cold White (CCT 5000K or 6000K)  
EM LED Emotion (CCT 2700÷6400K)  
EDC LED Emotion Dual Color EDC (CCT 3000÷4000K)  
RGBW with Led RGB White  
RGB with Led RGB

Where h designates the Type of fixing and can be:

Blank with STANDARD fixing system - screw

**Additional information (if necessary)**



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**Electrical ratings**

	Series	Input Voltage	Max Power
Linear Models	BALI, IKO, KEA, KUBI, BRASILIA, KITON, FREE LED, GENEVE, GHIBLI, LUGANO, LUMI, MEC-1, MEC-3, MEC-5, MINICORNER, PERTH, SKYLINE, ELBA, LUGANO IP44, SKUBA, TOM-A, TOM-B, TOM-C, INSIDER, MEC RACK, FLY LIGHT, ARC-01	12 V $\overline{\text{---}}$ / 24 V $\overline{\text{---}}$	16,9 W/m
	LIGHT SYSTEM, DOWN UP, OSAKA, OSLO2, M1 COLONNA, M1 S. PENS, M1 KUBIKINA, M1 NICCHIA, ACROSS, TOLEDO2, GHIBLI KS, TWILIGHT, MICROLINE 45.	12 V $\overline{\text{---}}$ / 24 V $\overline{\text{---}}$	16,9 W/m
	<b>MICROMECC -1, MICROMECC -3</b>	<b>12 V <math>\overline{\text{---}}</math> / 24 V <math>\overline{\text{---}}</math></b>	<b>16,9 W/m</b>
Panel Luminaires	SOLARIS	12 V $\overline{\text{---}}$ / 24 V $\overline{\text{---}}$	40,4 W
	K PANEL	12 V $\overline{\text{---}}$ / 24 V $\overline{\text{---}}$	6,5 W
Spot Models	SUNNY SQUARE HE, SUNNY HE	12 V $\overline{\text{---}}$	1,3 W
	LUCKY-1	12 V $\overline{\text{---}}$	1,7 W
	LUCKY-2	12 V $\overline{\text{---}}$	2,0 W
	LUCKY-3	12 V $\overline{\text{---}}$	2,4 W
	LUCKY-4	12 V $\overline{\text{---}}$	3,9 W
	II LED IR	12 V $\overline{\text{---}}$	5,5 W
	II LED	12 V $\overline{\text{---}}$	5,5 W
	II LED Sound	12 V $\overline{\text{---}}$	5,5 W

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**Additional Information:**

**Additionally evaluated to:** EN 60598-1:2015, EN 60598-1:2015/A1:2018, EN 60598-2-1:1989  
National differences specified in the CB Test Report.

**Summary of Modifications:**

The original report was modified to include the following changes/additions:

- Updated Applicant, Manufacturer and Factory Name;
- Added new models and updated the Speaking Code;
- Updated Marking plates;
- Updated Critical components table;
- Updated enclosures;
- Updated National Differences

**Additional information (if necessary)**



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