

# LB2 Premium-sound Cabinet Loudspeaker Range

www.boschsecurity.com



**BOSCH**  
Invented for life



- ▶ High-fidelity music and speech reproduction
- ▶ Selectable 8 ohm, 70 V and 100 V inputs
- ▶ Compact yet robust ABS enclosure
- ▶ Supplied with adjustable mounting bracket
- ▶ Water and dust protected IP65

The LB2-UCxx-x1 Premium-sound cabinet loudspeakers are intended for clear reproduction of speech, foreground and background music to be used in general indoor and outdoor applications. The Premium-sound cabinet loudspeaker range consists of a 15 W and 30 W model, available in a light or dark color. The loudspeakers have selectable 8 ohm, 70 V and 100 V inputs.

The ABS cabinets are fitted with aluminum front-grilles and standard supplied with aluminum bracket. Typical applications are: theme bars, music restaurants, theme parks, retail outlets, audio visual, boardrooms and offices, exhibition areas, showrooms, fitness centre's and presentation environments.

## Certifications and approvals

### Quality assurance

All Bosch loudspeakers are designed to withstand operating at their rated power for 100 hours in accordance with IEC 268-5 Power Handling Capacity (PHC) standards. Bosch has also developed the Simulated Acoustical Feedback Exposure (SAFE) test to demonstrate that they can withstand two times

their rated power for short durations. This ensures improved reliability under extreme conditions, leading to higher customer satisfaction, longer operating life, and lessens the chance of failure or performance deterioration.

|                           |                                   |
|---------------------------|-----------------------------------|
| Safety                    | acc. to EN 60065                  |
| Water and dust protection | acc. to EN 60529 Water Protection |
| Self extinguishing        | acc. to UL94 V 0                  |
| Chlorine resistant        | acc. to IEC60068-2-42             |
| Corrosion resistant       | acc. to IEC60068-2-52             |
| Salt mist                 | acc. to IEC60068-2-11             |

## Installation/configuration notes

The cabinets include a built-in transformer that offers a selection of nominal full power, half power, quarter power or eight power radiation (i.e. in 3 dB steps) for 70 V, 100 V or 8 Ohm bypass.

Selection is done by a convenient switch on the rear enclosure.

A two meter long twin-core loudspeaker cable (in matching color with the cabinet) is connected to the loudspeaker. The core ends are stripped ready for use. The mounting brackets are fitted with anti-theft torx screws, covered with plastic covers in matching color of the cabinets.

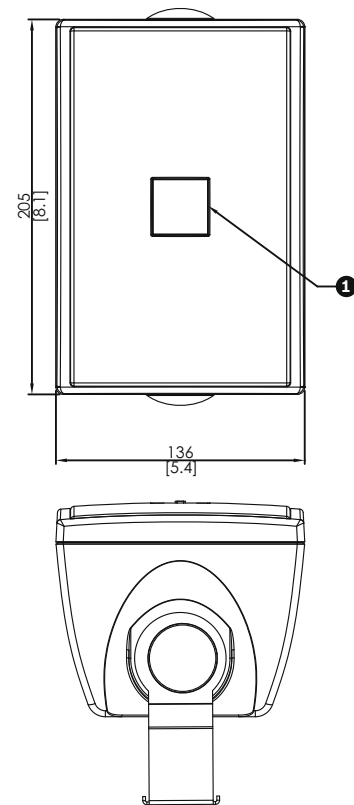
The cabinets can be mounted horizontally to allow the loudspeaker to be directed up or down, or vertically to allow left and right rotation by means of a steel U-shaped wall bracket (standard supplied).

The rotatable logo can be easily adjusted to match the mounting orientation.

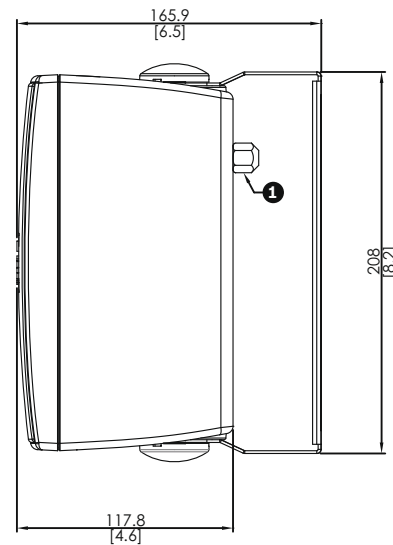


Rear view LB2-UC15-x1 / LB2-UC30-x1

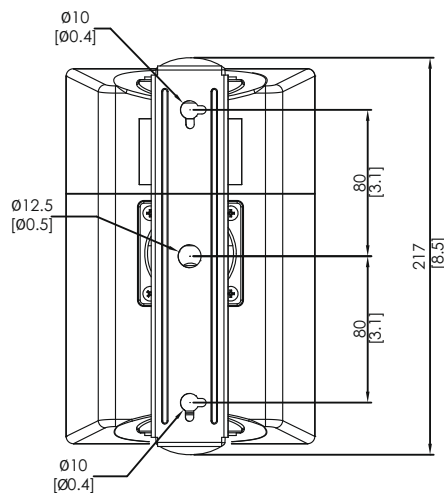
### LB2-UC15-D1/L1



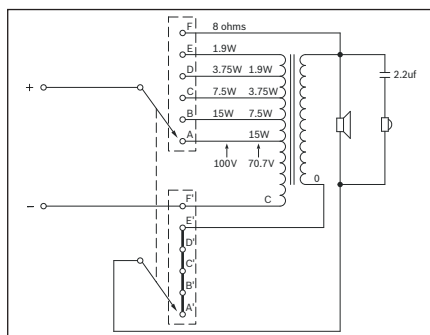
Front and top view mm (in). (1) Rotatable logo.



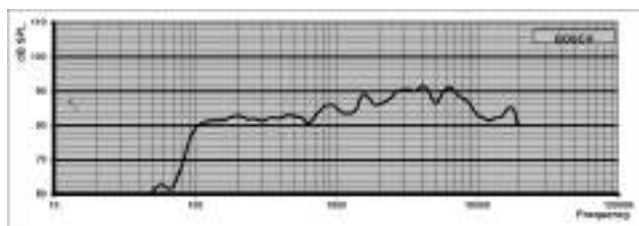
Side view mm (in). (1) Power tapping switch.



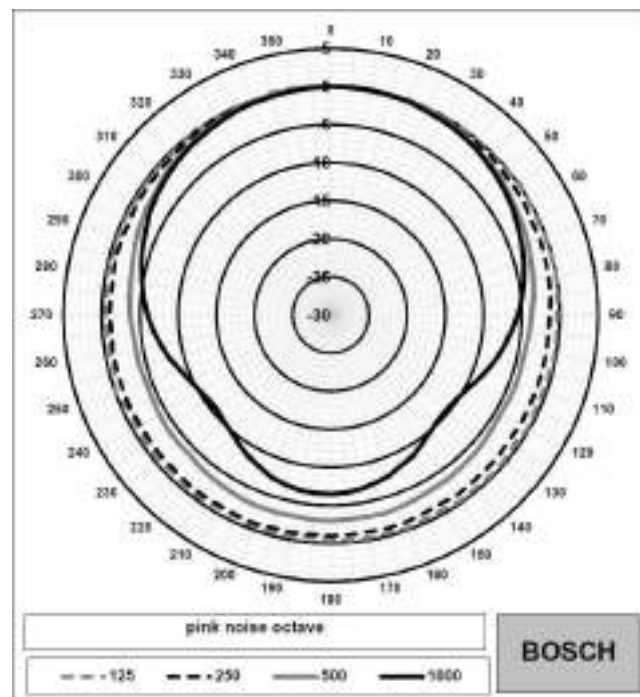
Rear view mm (in).



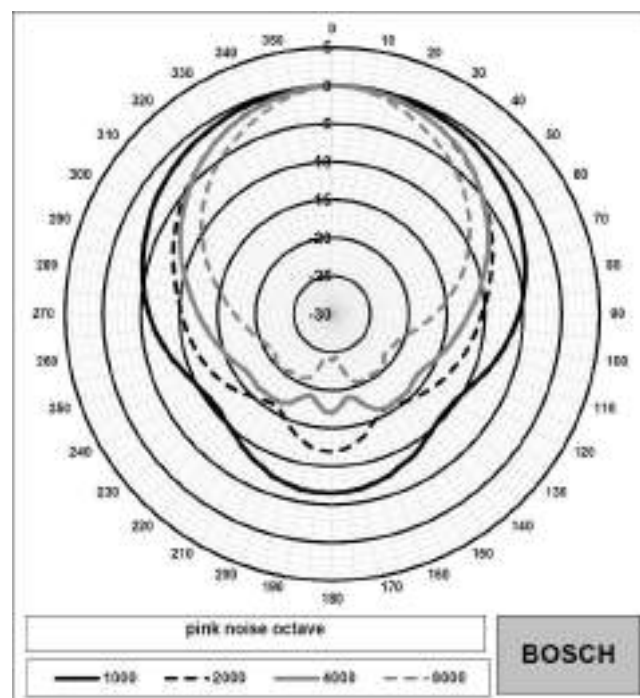
LB2-UC15-x1 Circuit diagram



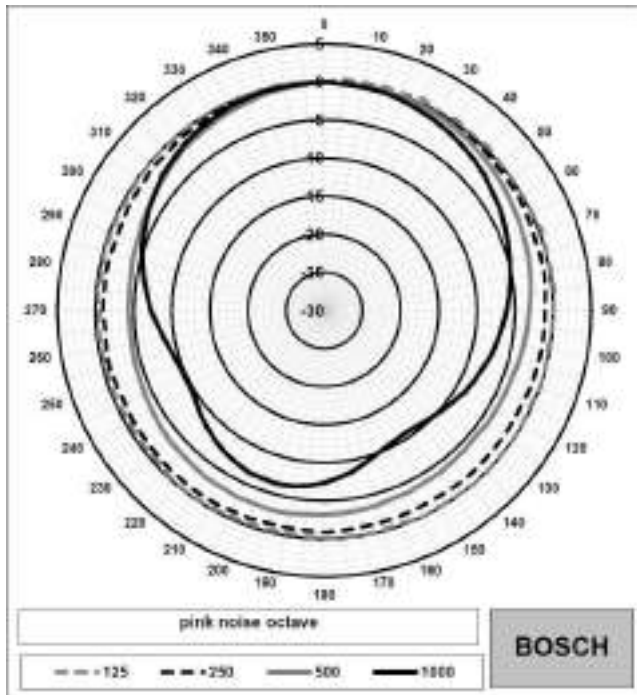
LB2-UC15-x1 Frequency response



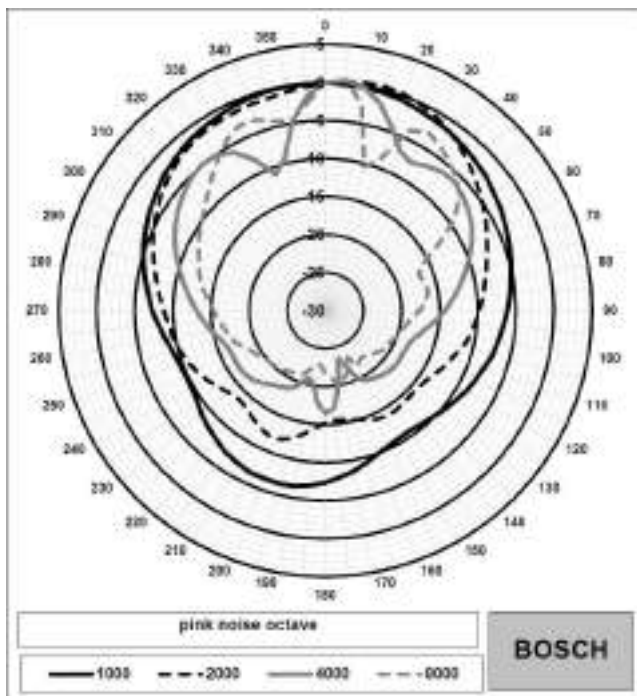
LB2-UC15-x1 Polar diagram horizontal (low frequency).  
Normalized at 0 degrees axis.



LB2-UC15-x1 Polar diagram horizontal (high frequency).  
Normalized at 0 degrees axis.



LB2-UC15-x1 Polar diagram vertical (low frequency).  
Normalized at 0 degrees axis.



LB2-UC15-x1 Polar diagram vertical (high frequency).  
Normalized at 0 degrees axis.

#### Octave band sensitivity \*

|              | Octave SPL<br>1W/1m | Total octave<br>SPL<br>1W/1m | Total octave<br>SPL<br>Pmax/1m |
|--------------|---------------------|------------------------------|--------------------------------|
| 125 Hz       | 82.0                | -                            | -                              |
| 250 Hz       | 82.9                | -                            | -                              |
| 500 Hz       | 84.3                | -                            | -                              |
| 1000 Hz      | 86.9                | -                            | -                              |
| 2000 Hz      | 88.7                | -                            | -                              |
| 4000 Hz      | 90.7                | -                            | -                              |
| 8000 Hz      | 90.4                | -                            | -                              |
| A-weighted   | -                   | 86.2                         | 97.0                           |
| Lin-weighted | -                   | 86.6                         | 97.3                           |

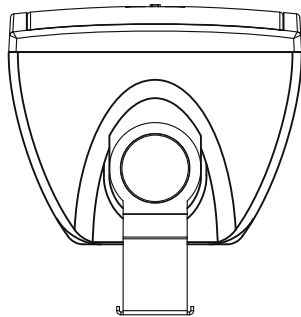
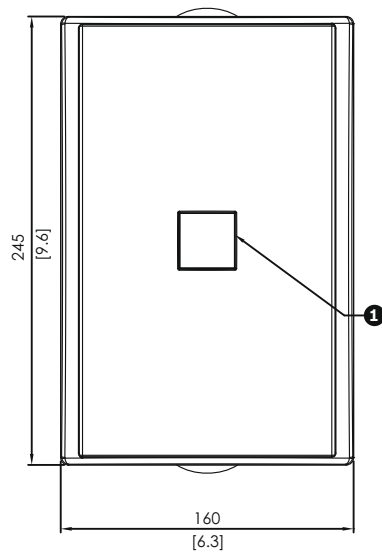
#### Octave band opening angles

|         | Horizontal | Vertical |
|---------|------------|----------|
| 125 Hz  | 360        | 360      |
| 250 Hz  | 360        | 360      |
| 500 Hz  | 360        | 360      |
| 1000 Hz | 184        | 170      |
| 2000 Hz | 117        | 130      |
| 4000 Hz | 112        | 35       |
| 8000 Hz | 86         | 48       |

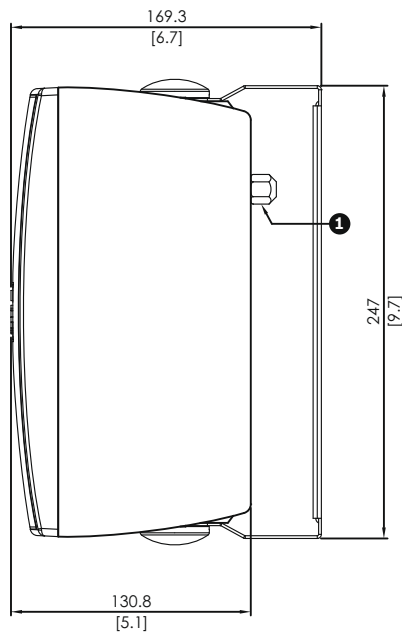
Acoustical performance specified per octave

\* (all measurements are done with a pink noise signal;  
the values are in dB SPL)

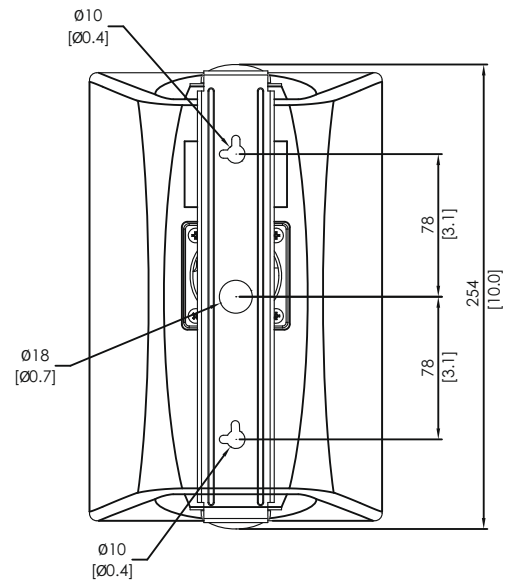
## LB2-UC30-D1/L1



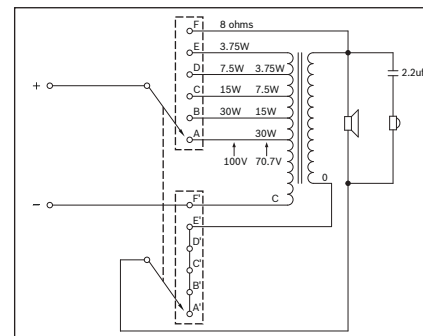
Front and top view mm (in). (1) Rotatable logo.



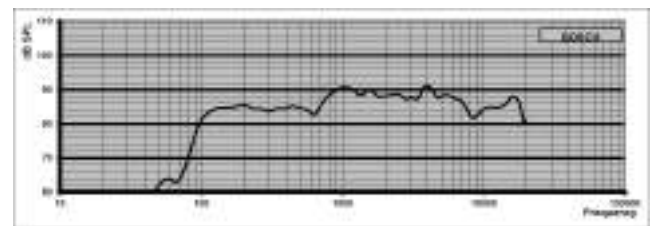
Side view mm (in). (1) Power tapping switch.



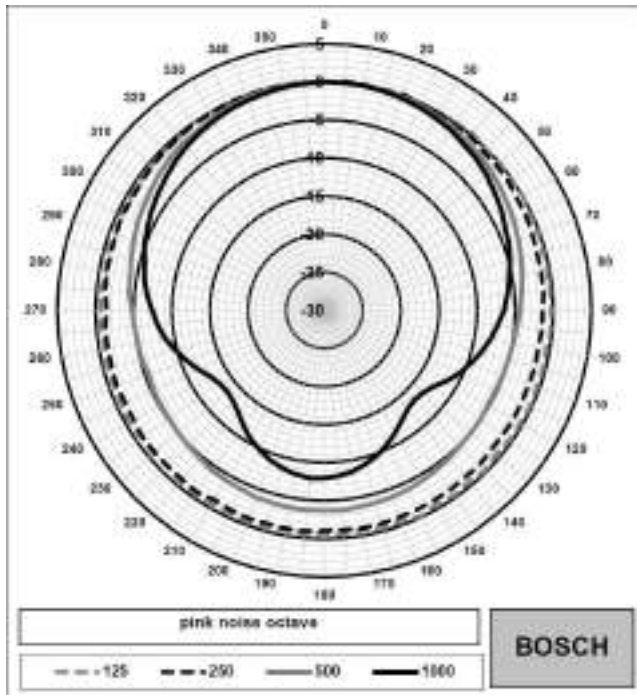
Rear view mm (in)



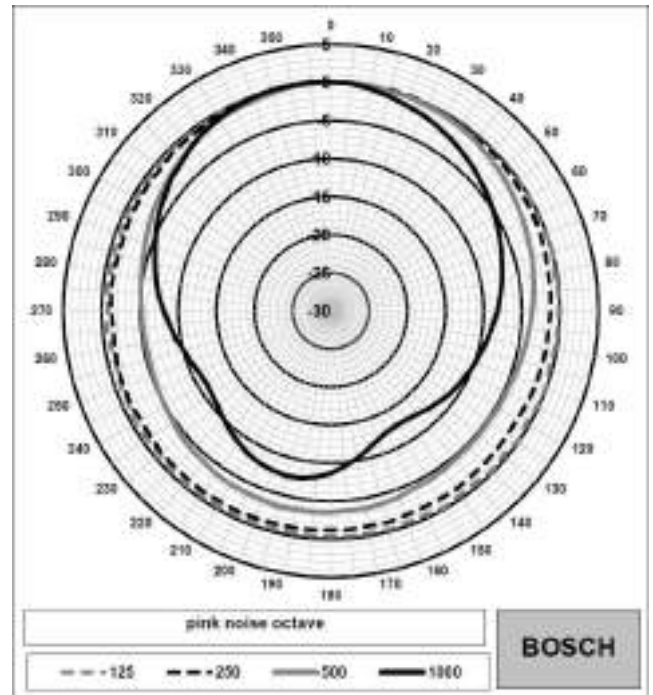
LB2-UC30-x1 Circuit diagram



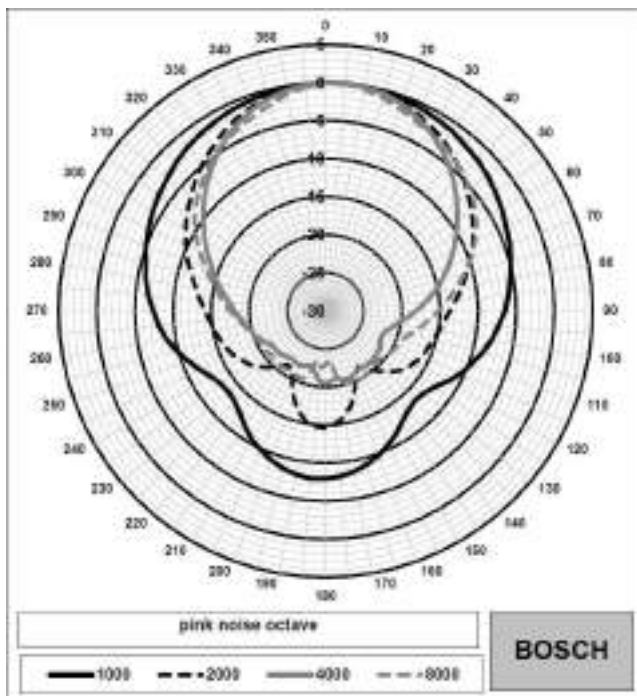
LB2-UC30-x1 Frequency response



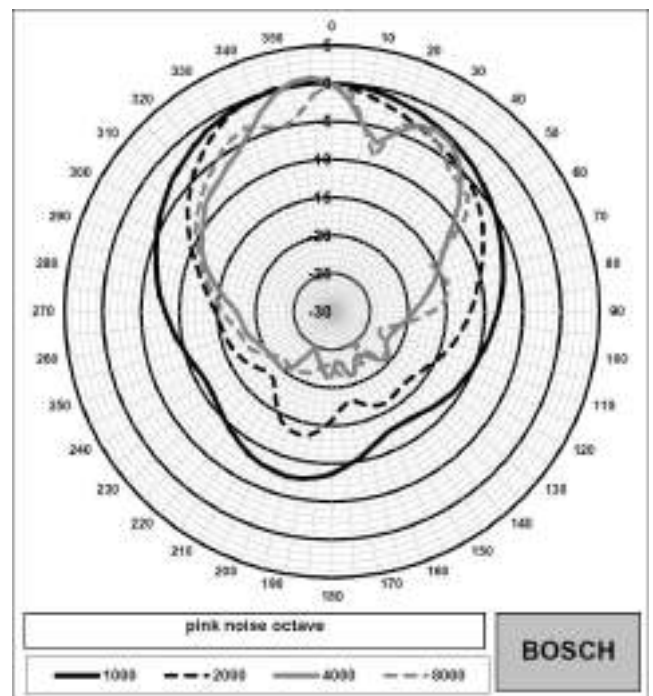
LB2-UC30-x1 Polar diagram horizontal (low frequency).  
Normalized at 0 degrees axis.



LB2-UC30-x1 Polar diagram vertical (low frequency).  
Normalized at 0 degrees axis.



LB2-UC30-x1 Polar diagram horizontal (high frequency).  
Normalized at 0 degrees axis.



LB2-UC30-x1 Polar diagram vertical (high frequency).  
Normalized at 0 degrees axis.

## Octave band sensitivity \*

|              | Octave SPL<br>1W/1m | Total octave<br>SPL<br>1W/1m | Total octave<br>SPL<br>Pmax/1m |
|--------------|---------------------|------------------------------|--------------------------------|
| 125 Hz       | 84.0                | -                            | -                              |
| 250 Hz       | 84.4                | -                            | -                              |
| 500 Hz       | 85.6                | -                            | -                              |
| 1000 Hz      | 90.2                | -                            | -                              |
| 2000 Hz      | 90.1                | -                            | -                              |
| 4000 Hz      | 93.0                | -                            | -                              |
| 8000 Hz      | 88.6                | -                            | -                              |
| A-weighted   | -                   | 87.7                         | 101.6                          |
| Lin-weighted | -                   | 87.9                         | 102.2                          |

## Octave band opening angles

|         | Horizontal | Vertical |
|---------|------------|----------|
| 125 Hz  | 360        | 360      |
| 250 Hz  | 360        | 360      |
| 500 Hz  | 360        | 360      |
| 1000 Hz | 166        | 140      |
| 2000 Hz | 98         | 104      |
| 4000 Hz | 83         | 76       |
| 8000 Hz | 94         | 54       |

Acoustical performance specified per octave

\* (all measurements are done with a pink noise signal; the values are in dB SPL)

## Parts included

| Quantity | Components               |
|----------|--------------------------|
| 1        | LB2-UCxx-x1              |
| 1        | Mounting bracket         |
| 1        | Installation instruction |

## Technical specifications

## Electrical\*

|             |                                         |                                         |
|-------------|-----------------------------------------|-----------------------------------------|
| Product     | LB2-UC15-D1<br>LB2-UC15-L1              | LB2-UC30-D1<br>LB2-UC30-L1              |
| Description | Premium-sound<br>Cabinet<br>Loudspeaker | Premium-sound<br>Cabinet<br>Loudspeaker |

|                                                              |                                                            |                                                          |
|--------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|
| Maximum power                                                | 22.5 W                                                     | 45 W                                                     |
| Rated power (PHC)                                            | 15 W                                                       | 30 W                                                     |
| Power tapping                                                | 15/7.5/3.75/1.9 W                                          | 30/15/7.5/3.75 W                                         |
| Sound pressure level<br>at rated power / 1 W<br>(1 kHz, 1 m) | 99/87 dB (SPL)                                             | 105/90 dB (SPL)                                          |
| Effective frequency<br>range (-10 dB)                        | 95 Hz to 20 kHz                                            | 100 Hz to 19 kHz                                         |
| Opening angle<br>at 1 kHz / 4 kHz<br>(-6 dB)                 | 184° / 112° (hor.)<br>170° / 35° (ver.)                    | 166° / 83° (hor.)<br>140° / 76° (ver.)                   |
| Rated input voltage                                          | 11/70/100 V                                                | 15.5/70/100 V                                            |
| Rated impedance                                              | 8/326/667 ohm                                              | 8/163/333 ohm                                            |
| Transducers                                                  | 101.6 mm (4")<br>woofer, 13 mm<br>(0.51 ") dome<br>tweeter | 127 mm (5")<br>woofer, 13 mm<br>(0.51 ") dome<br>tweeter |
| Connection                                                   | 2 m (78.8 in.)<br>two-wire cable                           | 2 m (78.8 in.)<br>two-wire cable                         |

\* Technical performance data acc. to IEC 60268-5

## Mechanical

|                    |                                                          |                                                          |
|--------------------|----------------------------------------------------------|----------------------------------------------------------|
| Dimensions (HxWxD) | 205x136x117 mm<br>8.07x5.35x4.60 in                      | 250x 60x140 mm<br>9.84x6.30x5.51 in                      |
| Weight             | Approx. 1.9 kg<br>(4.18 lb)                              | Approx. 2.4 kg<br>(5.29 lb)                              |
| Color              | White (RAL 9010)<br>(L) or<br>Charcoal<br>(RAL 7021) (D) | White (RAL 9010)<br>(L) or<br>Charcoal<br>(RAL 7021) (D) |

## Environmental

|                                   |                                      |
|-----------------------------------|--------------------------------------|
| Operating temperature             | -25 °C to +55 °C (-13 °F to +131 °F) |
| Storage and transport temperature | -40 °C to +70 °C (-40 °F to +158 °F) |
| Relative humidity                 | <95%                                 |

## Ordering information

## Premium-sound Cabinet Loudspeaker

Cabinet Loudspeaker 15 W, ABS enclosure, U-bracket mounting, fixed 2 m twin-core connection cable, water- and dust protected IP 65, charcoal RAL 7021. Order number **LB2-UC15-D1**

## Premium-sound Cabinet Loudspeaker

Cabinet Loudspeaker 15 W, ABS enclosure, U-bracket mounting, fixed 2 m twin-core connection cable, water- and dust protected IP 65, white RAL 9010. Order number **LB2-UC15-L1**

### **Premium-sound Cabinet Loudspeaker**

Cabinet Loudspeaker 30 W, ABS enclosure, U-bracket mounting, fixed 2 m twin-core connection cable, water- and dust protected IP 65, charcoal RAL 7021.  
Order number **LB2-UC30-D1**

---

### **Premium-sound Cabinet Loudspeaker**

Cabinet Loudspeaker 30 W, ABS enclosure, U-bracket mounting, fixed 2 m twin-core connection cable, water- and dust protected IP 65, white RAL 9010.  
Order number **LB2-UC30-L1**

---

#### **Represented by:**

##### **Americas:**

Bosch Security Systems, Inc.  
12000 Portland Avenue South  
Burnsville MN 55337, USA  
Phone: +1-800-392-3497  
Fax: +1-800-955-6831  
audiosupport@us.bosch.com  
www.boschsecurity.com

##### **Europe, Middle East, Africa:**

Bosch Security Systems B.V.  
P.O. Box 80002  
5617 BA Eindhoven, The Netherlands  
Phone: + 31 40 2577 284  
Fax: +31 40 2577 330  
emea.securitysystems@bosch.com  
www.boschsecurity.com

##### **Asia-Pacific:**

Robert Bosch (SEA) Pte Ltd, Security Systems  
11 Bishan Street 21  
Singapore 573943  
Phone: +65 6571 2808  
Fax: +65 6571 2699  
apr.securitysystems@bosch.com  
www.boschsecurity.asia

##### **China:**

Bosch (Shanghai) Security Systems Ltd.  
201 Building, No. 333 Fuquan Road  
North IBP  
Changning District, Shanghai  
200335 China  
Phone +86 21 22181111  
Fax: +86 21 22182398  
www.boschsecurity.com.cn

##### **America Latina:**

Robert Bosch Ltda Security Systems Division  
Via Anhanguera, Km 98  
CEP 13065-900  
Campinas, Sao Paulo, Brazil  
Phone: +55 19 2103 2860  
Fax: +55 19 2103 2862  
latam.boschsecurity@bosch.com  
www.boschsecurity.com