

# 28

random

An innovative fabrication process that manipulates both the temperature and the direction of air flow into blown glass. The result is a slightly distorted sphere with an interior landscape of satellite shapes, including an opaque milk glass diffuser that houses either a low-voltage xenon or LED lamp.

The Random is suspended using coaxial cable and composed in ambient groupings.



28  
random

Lamping

1.8w LED or 20w xenon

Material

Blown glass, braided metal coaxial cable, electrical components, and brushed nickel or white powder coated canopy.

Patent

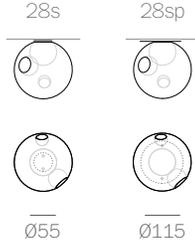
US Patent # D687,740  
EU Patent # 001695834-001 to 004



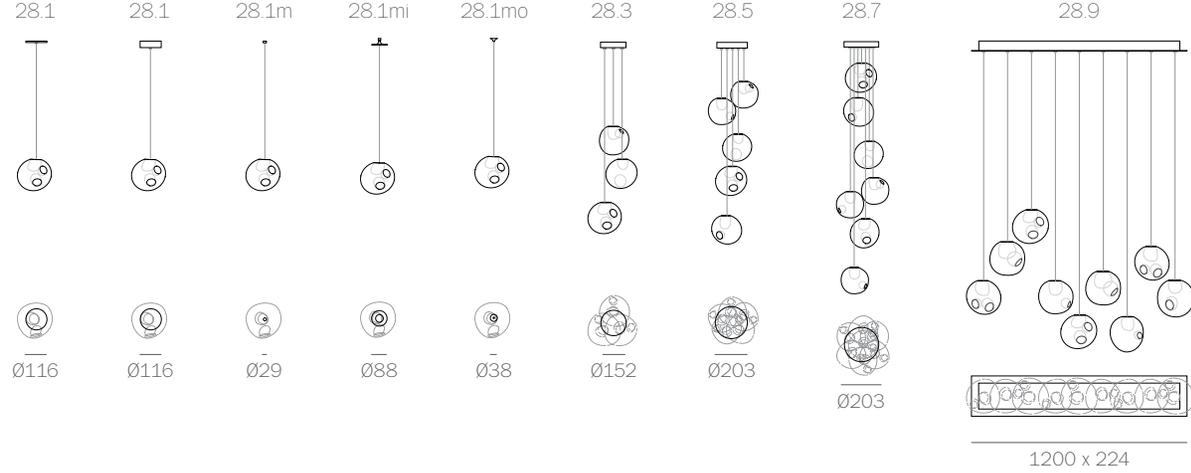
±Ø165 (6.5")

# 28 random

Surface Mount  
Wall/ceiling



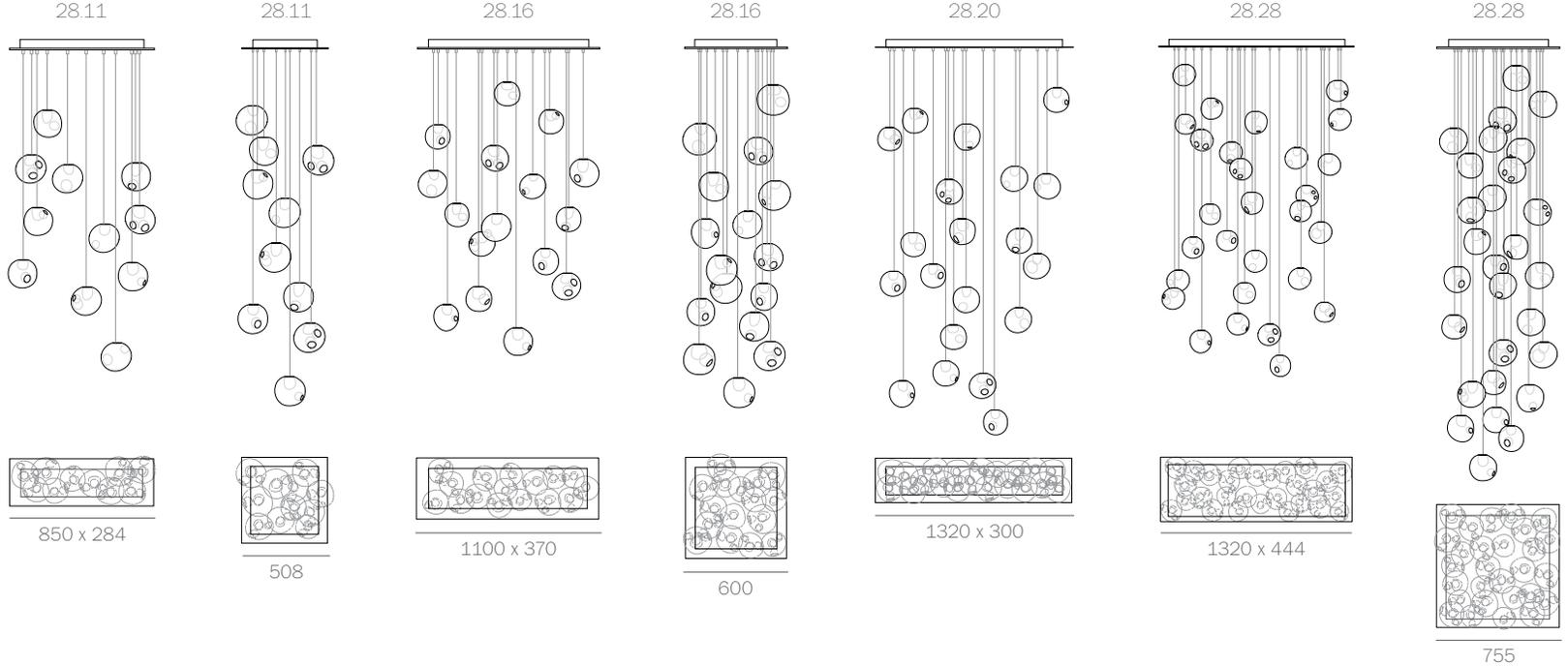
Adjustable  
Lengths  
Random canopies



adjustable  
up to  
3000 (10')  
standard

adjustable  
up to  
30500  
(100')  
custom

Fixed Lengths  
Random canopies

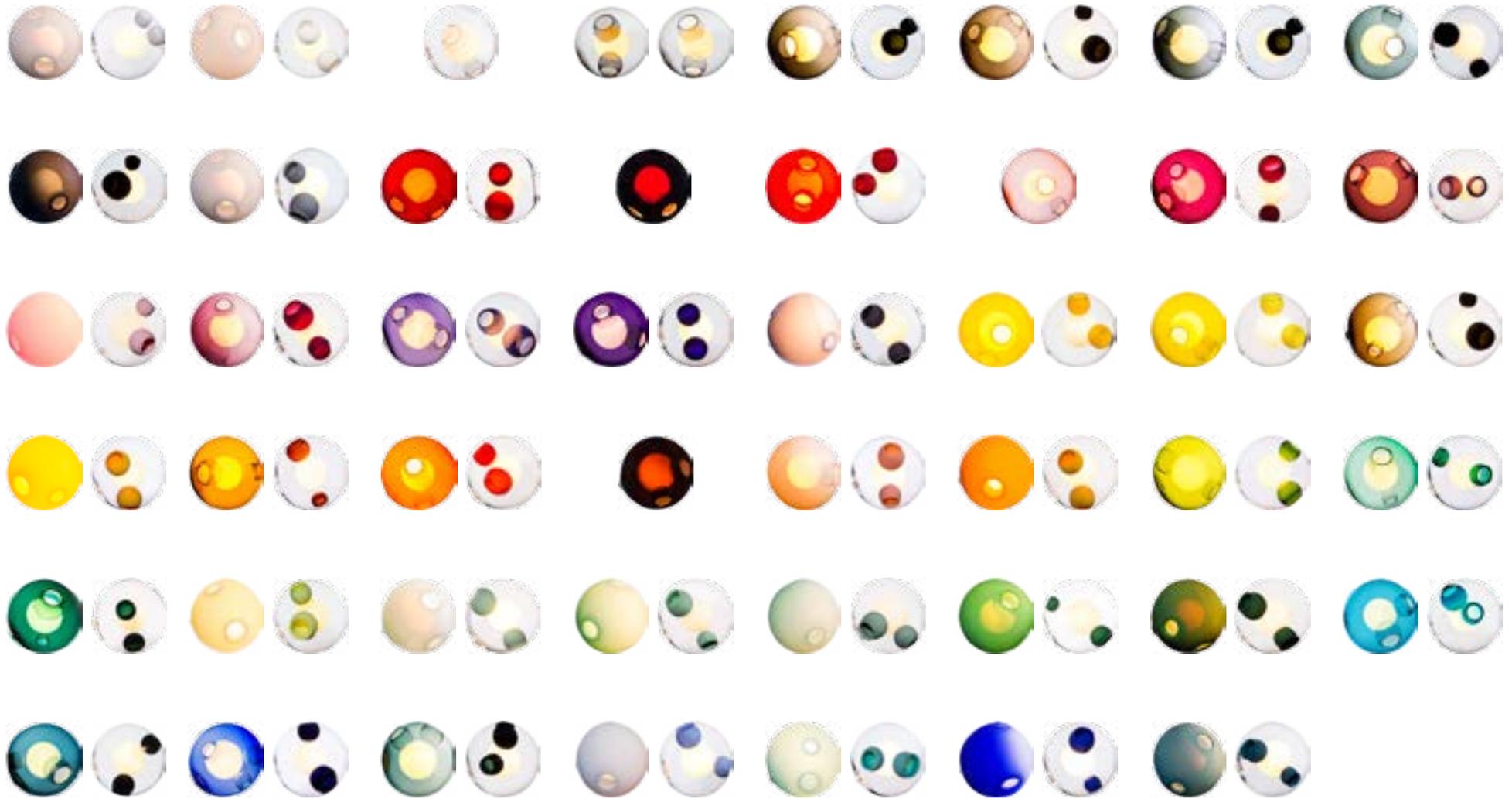


fixed  
length  
up to  
3000 (10')  
standard

fixed  
length  
up to  
30500  
(100')  
custom

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The 28 pendant comes in 90 different colours. Please visit the [28 colour app](#) for pendant colour compositions.



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Designed by Omer Arbel, 2009  
[www.bocci.ca](http://www.bocci.ca)

**BOCCI**

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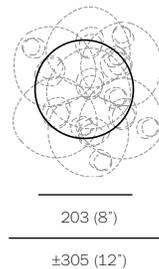
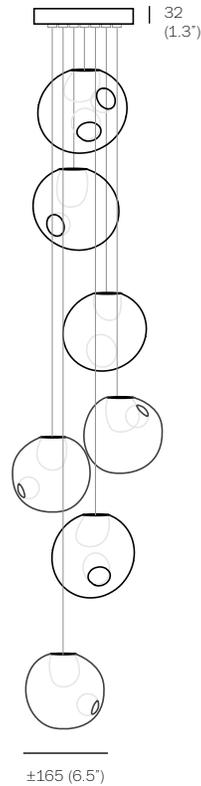
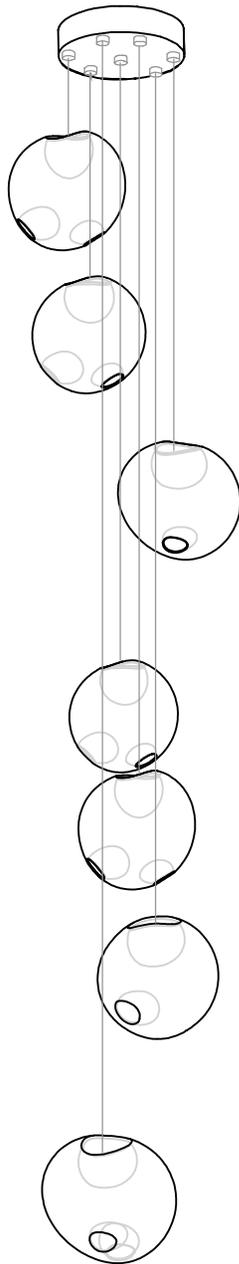
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28  
random



28  
random





adjustable  
up to 3000  
(10')  
standard

adjustable  
up to 30500  
(100')  
custom

approx 8kg (17.6lb)

PENDANTS: seven

MOUNTING: brushed nickel canopy 203mm (8") in diameter x 32mm (1.3") deep

LAMPING: 1.8w LED or 20w xenon

COAX: adjustable. 3000mm (10') standard / up to 30500mm (100') maximum

MATERIALS: blown glass, braided metal coaxial cable, electrical components, brushed nickel canopy

WEIGHT: approximately 8kg (17.6lb)

TRANSFORMERS: integral

#### DESCRIPTION

28.7 is a random configuration of seven 28 pendants hung from a round canopy. The pendants are designed to hang in a random configuration at times clustering and grouping together and others trailing off. The result is an ambient installation or field of light. The pendant drop lengths on this fixture are adjustable up to the specified maximum.

28 is an exploration of specificity in manufacturing. Instead of designing form itself, here the intent was to design a system of making that yields form. Individual 28 pendants result from a complex glass blowing technique whereby air pressure is intermittently introduced into and then removed from a glass matrix which is intermittently heated and then rapidly cooled. The result is a distorted spherical shape with a composed collection of imploded inner shapes, one of which acts as a shade for the light source.

Standard 28s are made with clear glass exterior spheres and milk white interior lamp holder cavities. 28s are possible with infinite versatility in colour compositions, sizes and shapes.

#### NOTES

- + Purchase replacement lamps online at [www.bocci.ca/lamps](http://www.bocci.ca/lamps)
- + Unless otherwise noted when ordering, all fixtures will be outfitted to be xenon compatible
- + As an alternative to a built-in transformer, Bocci recommends mounting transformers remotely in an easily accessible and hidden location for ease of long-term maintenance.

US Patent # D687,740  
EU Patent # 001695834-001 to 004

Made in Vancouver, Canada

Vancouver  
sales@bocci.ca  
www.bocci.ca

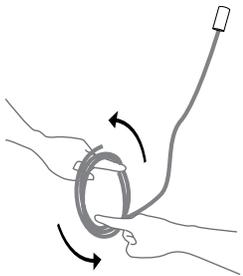
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28.7 Design by Omer Arbel  
PRODUCT SPECIFICATION

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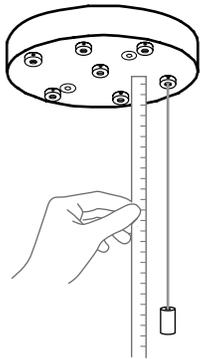
**BOCCI**



1

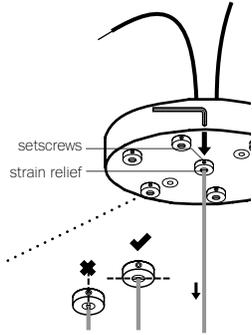
Very carefully uncoil the braided coaxial cable in a spool like manner. Insert your index fingers into opposite sides of the roll then rotate your fingers around each other to unroll the coaxial cable.

Use patience: allow the cable to uncoil completely to avoid kinks.



2

Determine the overall drop for the pendant fixture.



3

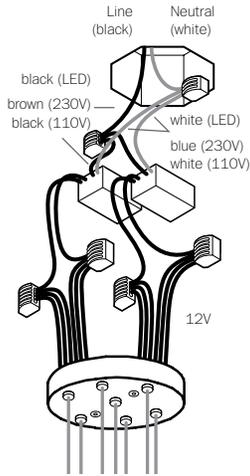
Thread the coaxial cables through the canopy, use a 2mm Allen key to loosen the setscrew in the canopy and gently feed the cable through until you have reached your desired drop length.

Use Allen key to tighten the setscrew to hold the strain relief and secure the coaxial cable at its new length. Perform a gentle tug test to ensure it is secure.

**DO NOT OVERTIGHTEN.**

Note: The strain relief is a black plastic collar around the coaxial cable. There is a single slot opening on the side of the strain relief component. It is essential that this opening is oriented at 90 degrees to set screw chamber. There can be no contact between the set screw and the cable.

**RISK OF ELECTRIC SHORT!**



4

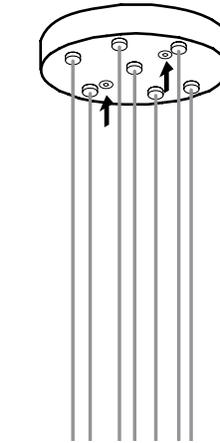
Xenon (110V) or LED: connect the black wire to black and white wire to white wire.

Xenon (230V): connect black wire to brown wire and white wire to blue wire.

Connect the coaxial cable to the open slots in the terminal block on the 12V side of the transformers.

Ensure that the braided outer wires are all connected to one 12V output wire and all inner insulated wires are connected to the other or a short will occur.

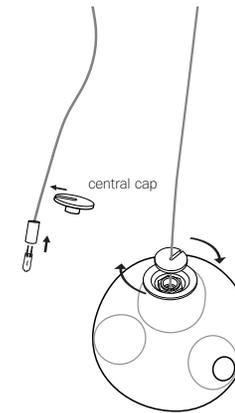
Once all coaxial connections are made, lift the fixture into position and connect the line voltage to the open slot in the appropriate terminal block.



5

The client is responsible to ensure fasteners are attached to a robust structural substrate.

Tuck the transformer and wiring into the canopy. Line up the fastener holes or connect directly to structural ceiling surface using the fasteners provided.



6

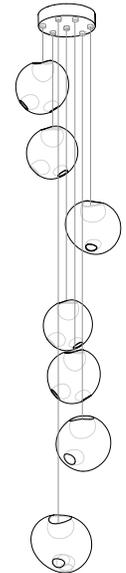
Bocci lamps are included. Plug the lamp into the socket. Do not touch the lamp with your bare hands.

Remove the center cap from 28 pendant. Install 28 pendant by sliding the center cap onto the coaxial cable, gently insert the lamp into the pendant, then tighten the center cap connection by hand.

**DO NOT OVERTIGHTEN.**

Remove the protective film from the center cap after assembly.

Note: when using a dimmer use only low voltage electronic dimmer.



7

Clean fingerprints from glass surfaces.

Turn fixture on.

For additional assistance, please contact Bocci:

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US Patent # D687,740  
EU Patent # 001695834-001 to 004

Made in Vancouver, Canada



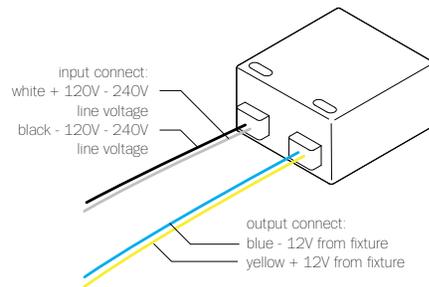
28.7

Design by Omer Arbel  
PRODUCT INSTALLATION INSTRUCTIONS

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**BOCCI**

## 120/240V LED Driver - 4W



### B-L03U-12V

PRIMARY: AC 100 - 240V, 120mA, 50/60Hz

SECONDARY: Max. 12V DC (4.2w max.)

LAMPING: 1w LED lamps: 1-3  
1.5w LED lamps: 1-2  
1.8w LED lamps: 1-2  
2.3w ring LED lamps: 1

DIMMING: Non-dimmable

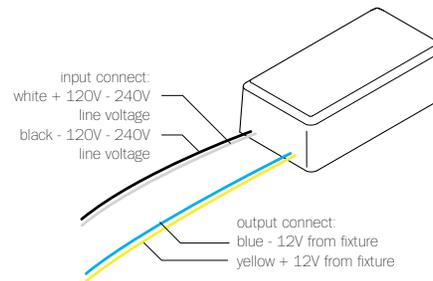
NOTES: Constant voltage  
Class 2 power unit  
For LED lamps only

DIMENSION: 43mm (1.7") x 41mm (1.6") x 22mm (0.8")

DESIGNATION:



## 120/240V LED Driver - 8W



### B-L07U-12V

PRIMARY: AC 100 - 240V, 170mA, 50/60Hz

SECONDARY: Max. 12V DC (8.4w max.)

LAMPING: 1w LED lamps: 1-7  
1.5w LED lamps: 1-5  
1.8w LED lamps: 1-4  
2.3w ring LED lamps: 1-3

DIMMING: Non-dimmable

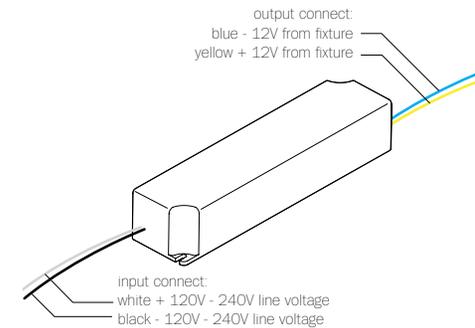
NOTES: Constant voltage  
Class 2 power unit  
For LED lamps only

DIMENSION: 65mm (2.5") x 35mm (1.3") x 28mm (1.1")

DESIGNATION:



## 120/240V LED Driver - 24W



### B-L24U-12V

PRIMARY: AC 100 - 240V, 300mA, 60Hz

SECONDARY: Max. 12V DC (24w max.)

LAMPING: 1w LED lamps: 1-24  
1.5w LED lamps: 1-16  
1.8w LED lamps: 1-13  
2.3w ring LED lamps: 1-10

DIMMING: Dimmable using minimum 8 lamps and improves with larger load. Use low voltage electronic dimmers only

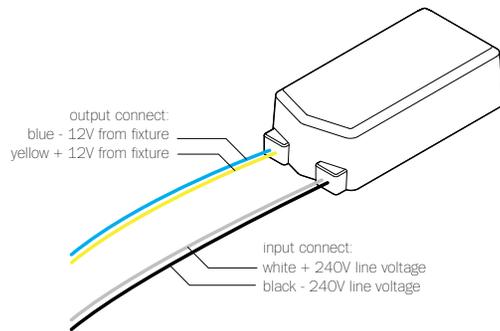
NOTES: Short Circuit Protection  
Constant voltage  
Class 2 power unit  
For LED lamps only

DIMENSION: 42mm (1.7") x 170mm (6.7") x 33mm (1.3")

DESIGNATION:



## 120V Transformer



### WH-601E6A-3C

PRIMARY: AC 120V 50/60Hz, 500mA

SECONDARY: 12V AC (10w min. - 60w max.)

LAMPING: 10w lamps: 1-6  
20w lamps: 1-3

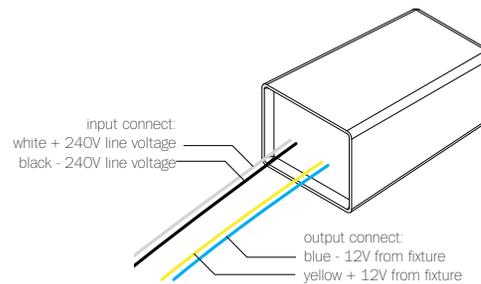
DIMMING: Dimmable using minimum 2 x 10w lamps or 1 x 20w lamp using low voltage electronic and trailing edge dimmers only.

NOTES: Auto stop protected  
Class 2 power unit  
Electronic transformer for xenon lamps only

DIMENSION: 70mm (2.8") x 36mm (1.4") x 20mm (0.75")

DESIGNATION:   E124867

## 240V Transformer



### WH-602W

PRIMARY: AC 230V-240V 50Hz, 260mA

SECONDARY: 11.5V AC (10w min. - 60w max.)

LAMPING: 10w lamps: 1-6  
20w lamps: 1-3

DIMMING: Dimmable using minimum 2 x 10w lamps or 1 x 20w lamp using low voltage electronic and trailing edge dimmers only.

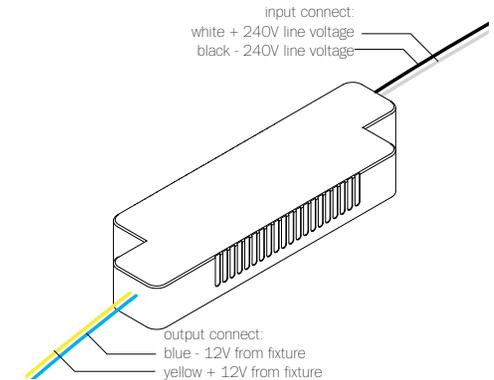
NOTES: Auto stop protected  
Class 2 power unit  
Electronic transformer for xenon lamps only

DIMENSION: 63mm (2.5") x 35mm (1.4") x 26mm (1")

DESIGNATION:    

IP65   ta: 50°C  
tc: 80°C

## 240V Transformer



### WH-602S

PRIMARY: AC 230V-240V 50Hz, 260mA

SECONDARY: 11.5V AC (10w min. - 60w max.)

LAMPING: 10w lamps: 1-6  
20w lamps: 1-3

DIMMING: Dimmable using minimum 2 x 10w lamps or 1 x 20w lamp using low voltage electronic and trailing edge dimmers only.

NOTES: Auto stop protected  
Class 2 power unit  
Electronic transformer for xenon lamps only

DIMENSION: 117mm (4.5") x 36mm (1.4") x 16mm (0.6")

DESIGNATION:     
     
 

XENON

# Transformers

PRODUCT SPECIFICATION

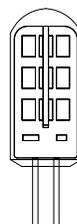
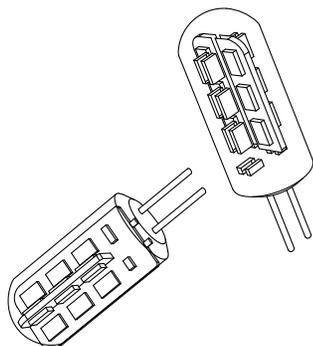
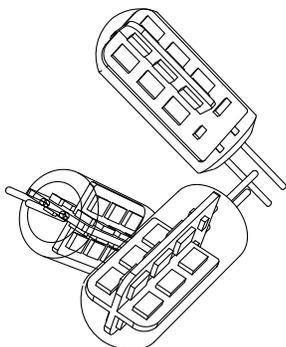
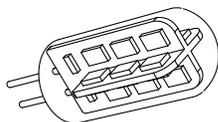
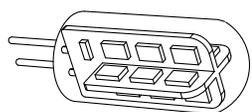
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# BOCCI



38 (1.5")



12.5 (0.5")

WATTAGE: 1.8w  
COLOUR TEMPERATURE: 2600k  
CRI: 75 (100 is daylight)  
LIGHT OUTPUT: 142 lumens  
EFFICIENCY: 60 lm/w  
LAMP LIFE: 25,000 hours

#### DESCRIPTION

The Bocci 1.8w LED lamping option offers a longer-life, energy efficient alternative to typical halogen or xenon lamps. This proprietary and worldwide patent pending design utilizes Bocci's standard G4 lamp holder (9.1mm/0.36" in diameter), which is designed to accept either the Bocci xenon lamp or the Bocci LED lamp. The possibility of dual usage allows the opportunity for existing chandeliers with xenon lamping to be retrofitted on site to LED along with the appropriate driver.

This unique replacement design is unlike typical embedded xenon fixtures as it eliminates the waste associated with catastrophic failures that leave no choice but to replace the entire fixture. When it comes time to relamp, the xenon heads may simply be replaced, as with conventional lamps. Bocci xenon lamp keeps the fixture out of landfills in the future, protects your investment and introduces a significant saving of energy.

#### NOTES

+ Purchase replacement lamps online at [www.bocci.ca/lamps](http://www.bocci.ca/lamps)

RoHS 

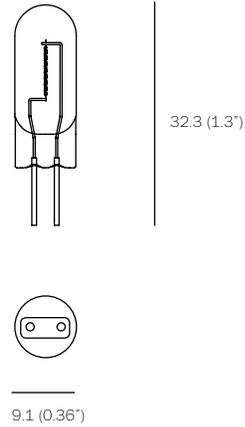
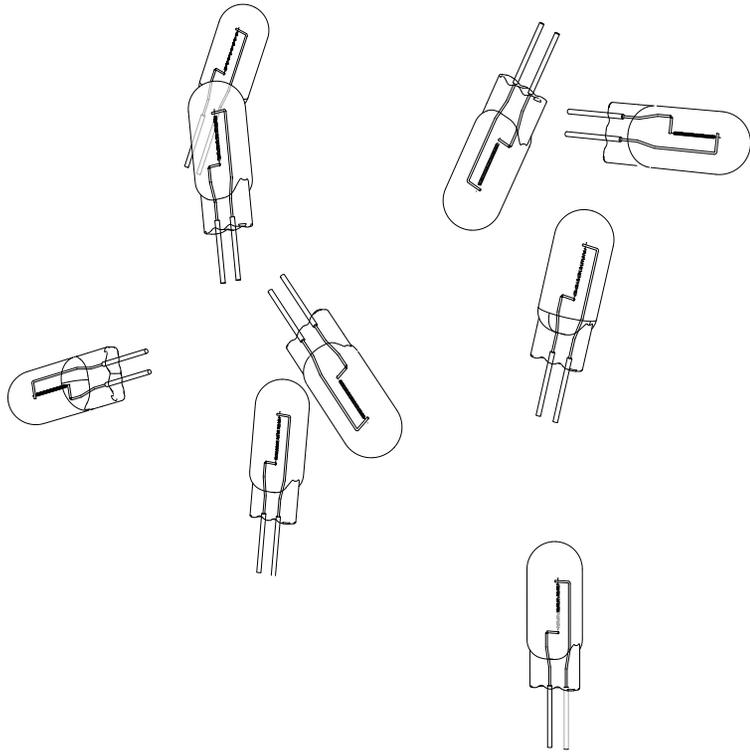
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LED

# 1.8W

Design by Omer Arbel  
PRODUCT SPECIFICATION



WATTAGE: 20w  
 COLOUR TEMPERATURE: 2600k  
 CRI: 100 (100 is daylight)  
 LIGHT OUTPUT: 196 lumens  
 EFFICIENCY: 19.03 lm/w  
 DIMMABLE: yes  
 LAMP LIFE: 20,000 hours

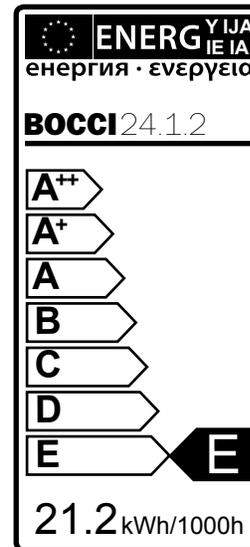
**DESCRIPTION**

The Bocci 20w xenon lamping option offers a longer-life, energy efficient alternative to typical halogen or xenon lamps. This proprietary and worldwide patent pending design utilizes Bocci's standard G4 lamp holder (9.1mm/0.36" in diameter), which is designed to accept either the Bocci xenon lamp or the Bocci LED lamp. The possibility of dual usage allows the opportunity for existing chandeliers with xenon lamping to be retrofitted on site to LED along with the appropriate driver.

This unique replacement design is unlike typical embedded xenon fixtures as it eliminates the waste associated with catastrophic failures that leave no choice but to replace the entire fixture. When it comes time to relamp, the xenon heads may simply be replaced, as with conventional lamps. Bocci xenon lamp keeps the fixture out of landfills in the future, protects your investment and introduces a significant saving of energy.

**NOTES**

- + Purchase replacement lamps online at [www.bocci.ca/lamps](http://www.bocci.ca/lamps)
- + Requires electronic low-voltage, trailing edge dimmer
- + When replacing, do not touch bulb with bare hands



RoHS

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XENON  
**20W** Design by Omer Arbel  
 PRODUCT SPECIFICATION