

# 87

random / cluster

A matrix of hot glass is stretched and folded back onto itself numerous times as it cools. Air is trapped between the folds and stretched along the grain of the loop, creating microfilaments that give the piece a pearlescent optical quality. A light source is introduced at one end of the loop casting light through the microfilaments and registering a gentle gradient.



87  
random / cluster



Lamping

1.8w LED or 10w xenon

Material

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

Patent

Worldwide patents pending  
EU Patent # 03611144 - 0005-0009



±115-240 (4.5'-9.5')

±300-500 (12'-20")

# 87

random / cluster

Adjustable Lengths  
Random canopies

87.1



87.1



87.1m



87.1mi



87.1mo



87.3



87.5



87.7

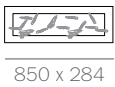


adjustable  
up to  
3000 (10')  
standard

adjustable  
up to  
30500  
(100')  
custom

Fixed Lengths  
Random canopies

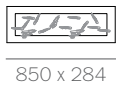
87.11



87.11



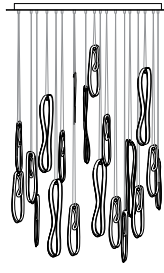
87.14



87.14



87.20



87.26

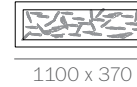


87.26

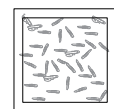


600

87.36



87.36



fixed  
length  
up to  
3000 (10')  
standard

fixed  
length  
up to  
30500  
(100')  
custom

755

# 87

random / cluster

Adjustable  
Lengths  
Non-swig Cluster  
canopies

87.3



Ø152

87.7



Ø203

adjustable  
up to  
3000 (10')  
standard

adjustable  
up to  
30500  
(100')  
custom

Fixed Lengths  
Non-swig Cluster  
canopies

87.19



Ø501

87.37



Ø600

87.61



Ø707

fixed  
length  
up to  
3000 (10')  
standard

fixed  
length  
up to  
30500  
(100')  
custom



87

random / cluster



Designed by Omer Arbel, 2017  
www.bocci.ca



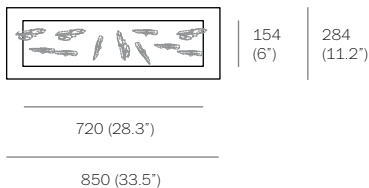
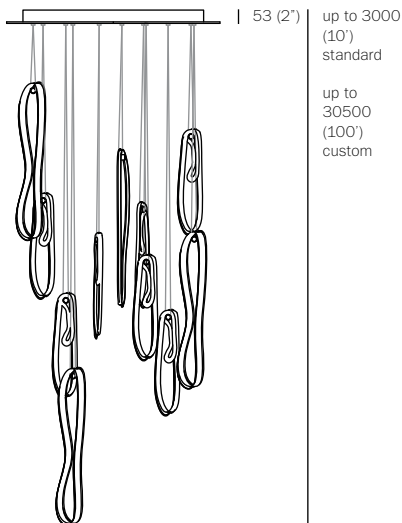
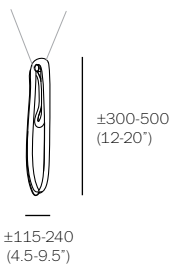
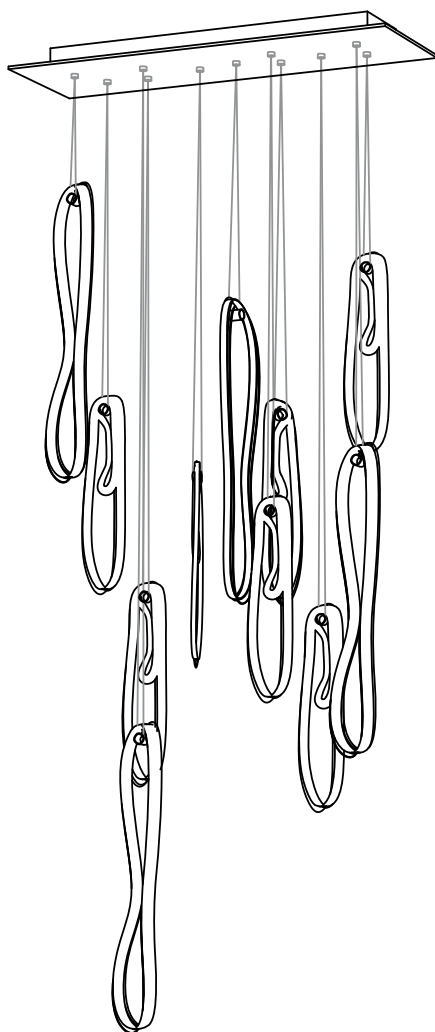
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# 87

random / cluster





- PENDANTS: eleven
- MOUNTING: white powder coated rectangular canopy 850mm (33.5") x 284mm (11.2") x 53mm (2") deep
- LAMPING: 1.8w LED or 10w xenon
- COAX: fixed lengths. 3000mm (10') standard / up to 30500mm (100') maximum
- MATERIALS: pulled glass, braided metal coaxial cable, electrical components, white powder coated canopy
- WEIGHT: approximately 26.4kg (58lb)
- TRANSFORMERS: integral (remote mount recommended)

#### DESCRIPTION

87.11 is a random configuration of eleven 87 pendants hung from a rectangular canopy. The drop lengths of the pendants are randomized between a client specified range of heights to variously cluster and scatter. The result is an ambient installation or field of light.

A matrix of hot glass is stretched and folded back onto itself numerous times as it cools. Air is trapped between the folds and stretched along the grain of the loop, creating microfilaments that give the piece a pearlescent optical quality. A LED light source is introduced at one end of the loop casting light through the microfilaments and registering a gentle gradient.

#### NOTES

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

Worldwide patents pending  
EU Patent # 03611144 - 0005-0009

Made in Vancouver, Canada

Vancouver  
sales@bocci.ca  
www.bocci.ca

Berlin  
europe@bocci.ca  
www.bocci.ca

approx 26.4kg (58lb)

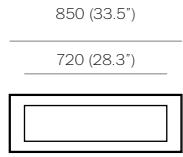


RECTANGLE

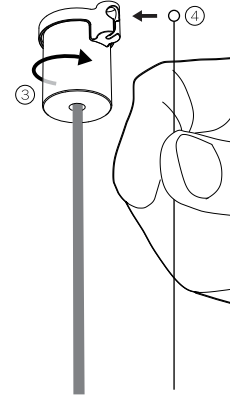
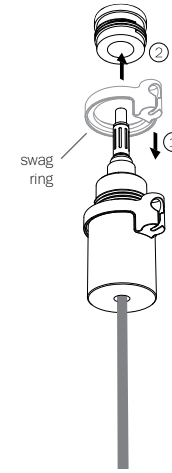
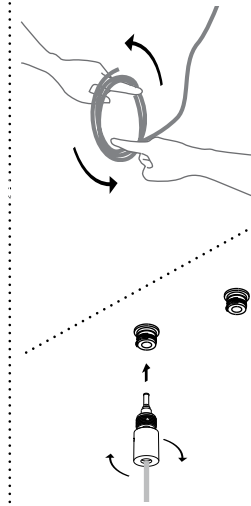
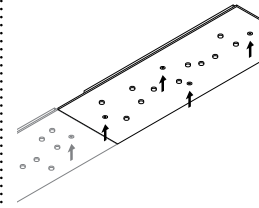
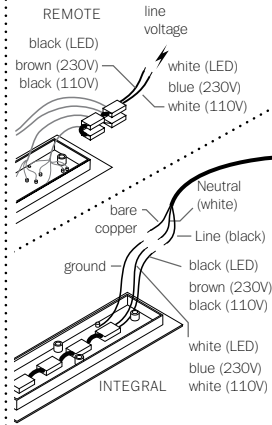
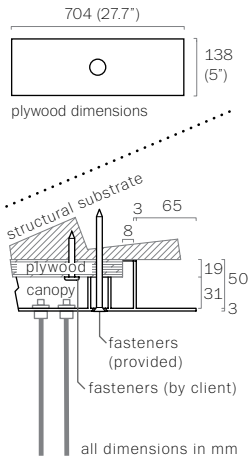
# 87.11

Design by Omer Arbel  
PRODUCT SPECIFICATION

# BOCCI



154 (6")  
284 (11.2")



### 1

Measure and mark the light fixture canopy position on the ceiling

### 2

Note: The client is responsible for providing a robust 19mm (3/4") plywood backing or wood blocking to securely anchor to the structural substrate.

Connections from the plywood to the structural substrate are the client's responsibility.

Measure the plywood so that it fits within the canopy side walls (refer to detail above).

Anchor the plywood backing to the structural ceiling substrate.

### 3

Connect transformers inside the canopy to line voltage.

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.

For the ground connection, connect the green wire with yellow stripe to the bare copper wire or green wire in the junction box.

Note: As an option, Bocci recommends mounting transformers remotely in a close, accessible and hidden location for ease of long term maintenance. Installation to be done by certified personnel to ensure compliance with the code.

### 4

Anchor canopy into the plywood backing using the fasteners provided.

### 5

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.

Each pendant terminates in a "headphone jack" type connector, which plugs into a receiving receptacle in the canopy. Clients are encouraged to compose their own pendant configuration on site, thus creating a truly unique fixture. After plugging in each pendant, turn the threaded sheath into place by hand ensuring that it is adequately tightened. Tools are not required.

### 6

On the canopy, there is a slot that will receive the ball that will receive the ball on the end of aircraft cable. Slide ball end aircraft cable into the slot.

### 7

Pull it gently to make sure the aircraft cable is seated properly.

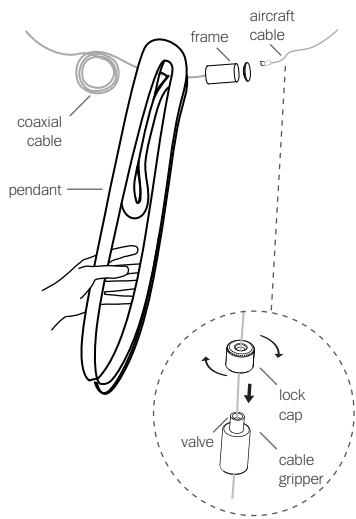
RECTANGLE

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Design by Omer Arbel  
PRODUCT INSTALLATION INSTRUCTIONS

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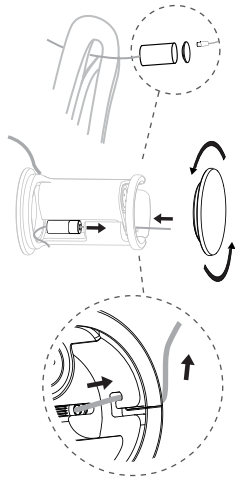


8

Loosen the lock cap and push the valve on the cable gripper and adjust the position of the cable gripper so that the aircraft cable is roughly the same length as the coaxial cable.

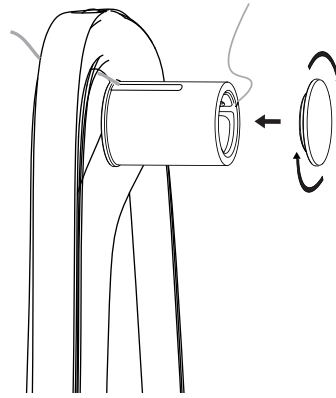
Thread the lock cap back into place, hand tighten and apply a load to the cable to ensure it is locked.

Thread the frame assembly through the top hole of the 87 pendant.



9

Unscrew frame cap opposite to the coaxial cable. Hook the cable gripper into the pocket inside the frame and guide the cable through the u-shaped hook in the frame and the silicone tube.



10

Screw frame cap back onto the frame assembly.

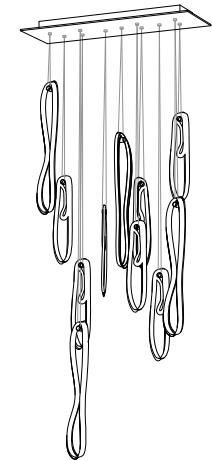


11

Rest pendant onto frame assembly.

If needed, repeat step 8 to adjust the position of frame.

Note: Frame assembly should hang level. The swag cable and the coaxial cable should be approximately the same length.



12

Clean fingerprints from glass surfaces.

Turn fixture on.

For additional assistance, please contact Bocci:

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Worldwide patents pending  
EU Patent # 03611144 - 0005-0009

Made in Vancouver, Canada



LOW VOLTAGE LUMINAIRE  
E476186

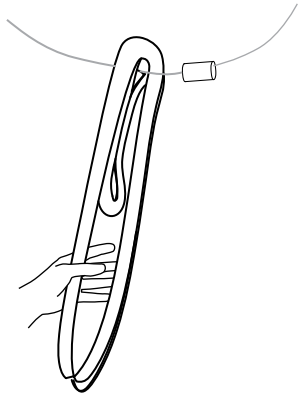
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87.11

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PRODUCT INSTALLATION INSTRUCTIONS

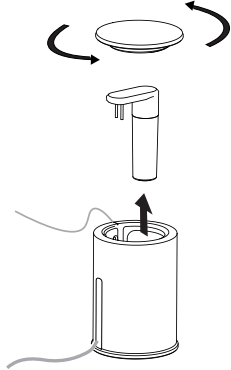
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1

Lift glass off of lamp holder assembly and hold securely.



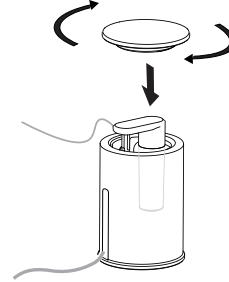
2

Unscrew cap at the aircraft cable end of the lamp holder assembly. Push coaxial cable through the slot in the silicone sheath, and remove lamp and lamp adapter.



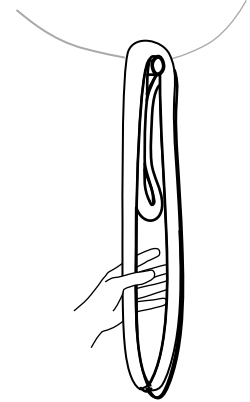
3

Remove lamp from lamp adapter and replace with new bulb.



4

Screw cap back onto the lamp holder assembly.



5

Gently rest pendant back onto lamp holder assembly.

Clean fingerprints from glass surfaces.

Turn fixture on.

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Worldwide patents pending  
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RECTANGLE

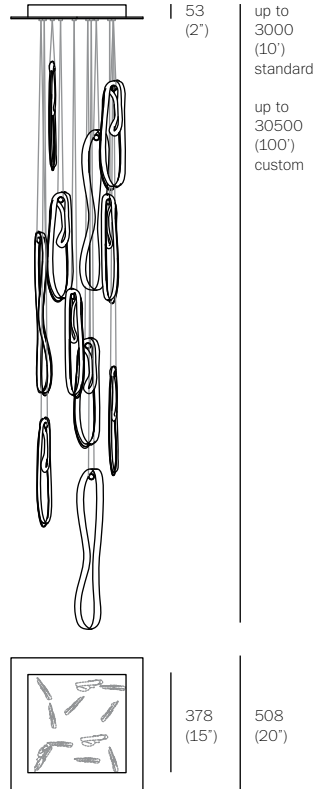
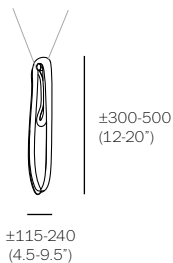
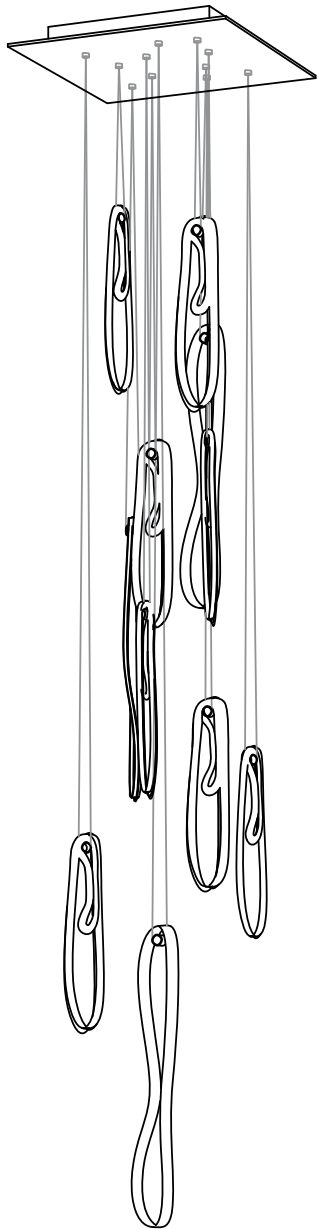
87.11

Design by Omer Arbel  
LAMP REPLACEMENT INSTRUCTIONS

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**BOCCI**





- PENDANTS: eleven
- MOUNTING: white powder coated square canopy 508 (20') x 53mm (2') deep
- LAMPING: 1.8w LED or 10w xenon
- COAX: fixed lengths. 3000mm (10') standard / up to 30500mm (100') maximum
- MATERIALS: pulled glass, braided metal coaxial cable, electrical components, white powder coated canopy
- WEIGHT: approximately 25.5kg (56lb)
- TRANSFORMERS: integral (remote mount recommended)

#### DESCRIPTION

87.11 is a random configuration of eleven 87 pendants hung from a square canopy. The drop lengths of the pendants are randomized between a client specified range of heights to variously cluster and scatter. The result is an ambient installation or field of light.

A matrix of hot glass is stretched and folded back onto itself numerous times as it cools. Air is trapped between the folds and stretched along the grain of the loop, creating microfilaments that give the piece a pearlescent optical quality. A LED light source is introduced at one end of the loop casting light through the microfilaments and registering a gentle gradient.

#### NOTES

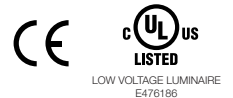
- + Purchase replacement lamps online at [www.bocci.ca/lamps](http://www.bocci.ca/lamps)
- + Unless otherwise noted when ordering, all chandeliers will be outfitted to be xenon compatible.
- + As an alternative to built-in transformers, Bocci recommends mounting transformers remotely in an easily accessible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

Worldwide patents pending  
EU Patent # 03611144 - 0005-0009

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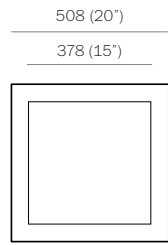


SQUARE

# 87.11

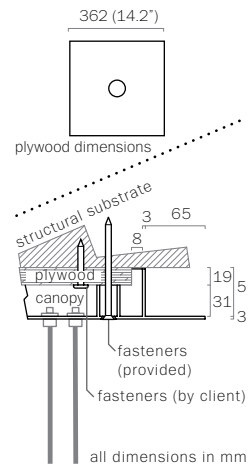
Design by Omer Arbel  
PRODUCT SPECIFICATION

approx 25.5kg (56lb)



1

Measure and mark the light fixture canopy position on the ceiling



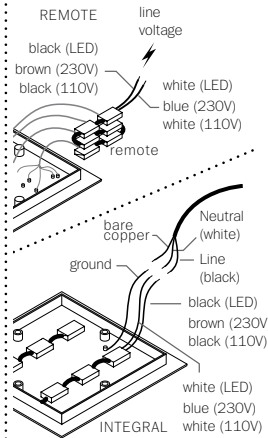
2

Note: The client is responsible for providing a robust 19mm (3/4") plywood backing or wood blocking to securely anchor to the structural substrate.

Connections from the plywood to the structural substrate are the client's responsibility.

Measure the plywood so that it fits within the canopy side walls (refer to detail above).

Anchor the plywood backing to the structural ceiling substrate.



3

Connect transformers inside the canopy to line voltage.

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

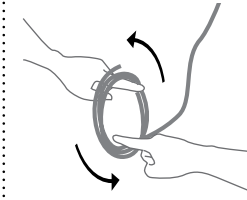
Xenon (230V): connect black wire to brown wire and white wire to blue wire.

For the ground connection, connect the green wire with yellow stripe to the bare copper wire or green wire in the junction box.

Note: As an option, Bocci recommends mounting transformers remotely in a close, accessible and hidden location for ease of long term maintenance. Installation to be done by certified personnel to ensure compliance with the code.

4

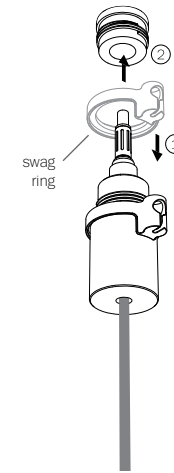
Anchor canopy into the plywood backing using the fasteners provided.



5

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.



6

Each pendant terminates in a "headphone jack" type connector, which plugs into a receiving receptacle in the canopy.

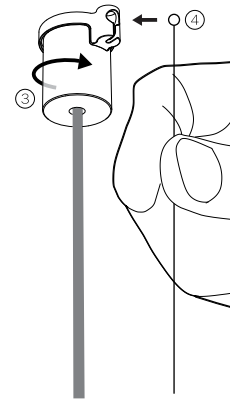
Rest the swag ring on the threaded sheath.

Plug in headphone jack.

7

Turn the threaded sheath into place by hand ensuring that it is adequately tightened. Tools are not required.

Slide the ball end of the aircraft cable into the swag ring slot and pull down. Make sure the aircraft cable is seated properly.



SQUARE

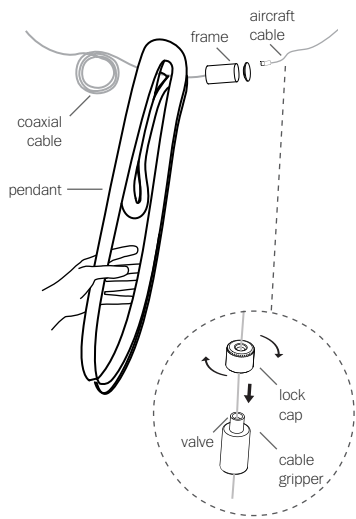
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PRODUCT INSTALLATION INSTRUCTIONS

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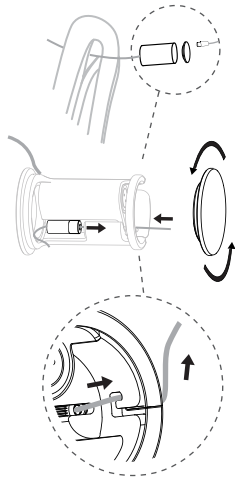


8

Loosen the lock cap and push the valve on the cable gripper and adjust the position of the cable gripper so that the aircraft cable is roughly the same length as the coaxial cable.

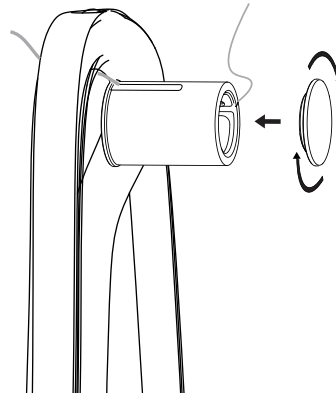
Thread the lock cap back into place, hand tighten and apply a load to the cable to ensure it is locked.

Thread the frame assembly through the top hole of the 87 pendant.



9

Unscrew frame cap opposite to the coaxial cable. Hook the cable gripper into the pocket inside the frame and guide the cable through the u-shaped hook in the frame and the silicone tube.



10

Screw frame cap back onto the frame assembly.

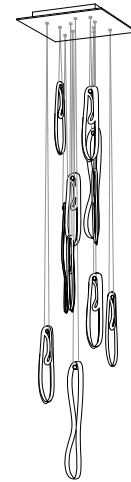


11

Rest pendant onto frame assembly.

If needed, repeat step 8 to adjust the position of frame.

Note: Frame assembly should hang level. The swag cable and the coaxial cable should be approximately the same length.



12

Clean fingerprints from glass surfaces.

Turn fixture on.

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Worldwide patents pending  
EU Patent # 03611144 - 0005-0009

Made in Vancouver, Canada



LOW VOLTAGE LUMINAIRE  
E476186

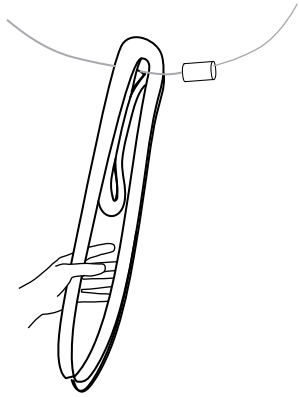
SQUARE

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PRODUCT INSTALLATION INSTRUCTIONS

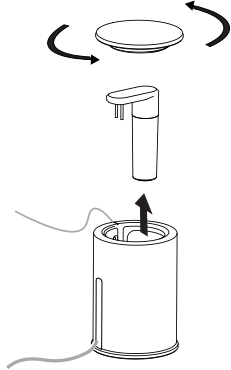
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1

Lift glass off of lamp holder assembly and hold securely.



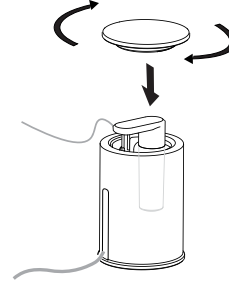
2

Unscrew cap at the aircraft cable end of the lamp holder assembly. Push coaxial cable through the slot in the silicone sheath, and remove lamp and lamp adapter.



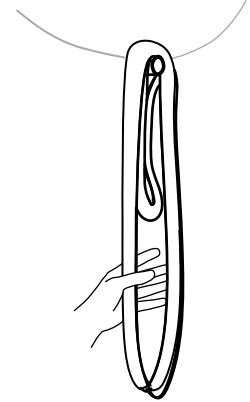
3

Remove lamp from lamp adapter and replace with new bulb.



4

Screw cap back onto the lamp holder assembly.



5

Gently rest pendant back onto lamp holder assembly.

Clean fingerprints from glass surfaces.

Turn fixture on.

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Worldwide patents pending  
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LOW VOLTAGE LUMINAIRE  
E476186

SQUARE

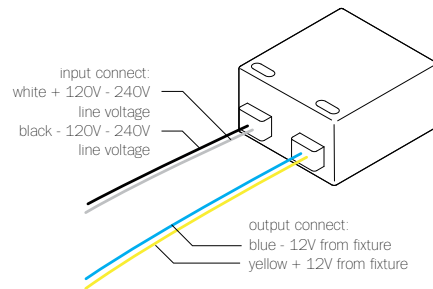
87.11

Design by Omer Arbel  
LAMP REPLACEMENT INSTRUCTIONS

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## 120/240V LED Driver - 4W



### B-L03U-12V

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

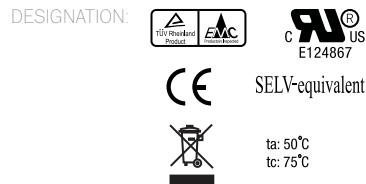
SECONDARY: Max. 12V DC (4.2w max.)

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

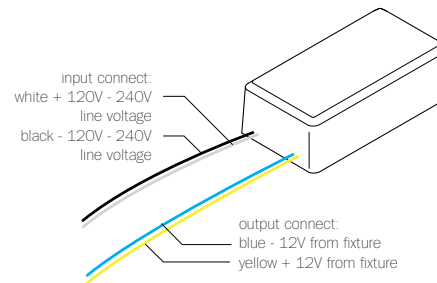
DIMMING: Non-dimmable

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

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



## 120/240V LED Driver - 8W



### B-L07U-12V

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

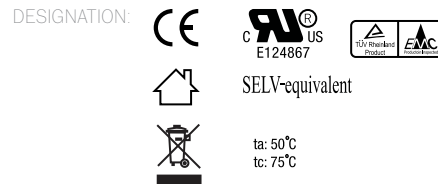
SECONDARY: Max. 12V DC (8.4w max.)

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

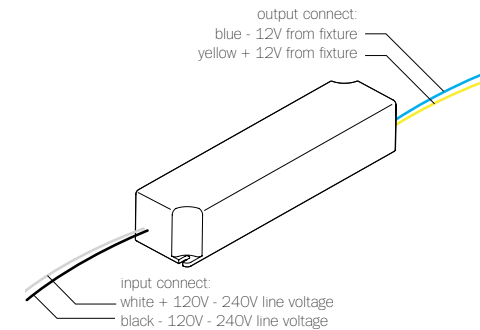
DIMMING: Non-dimmable

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

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



## 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

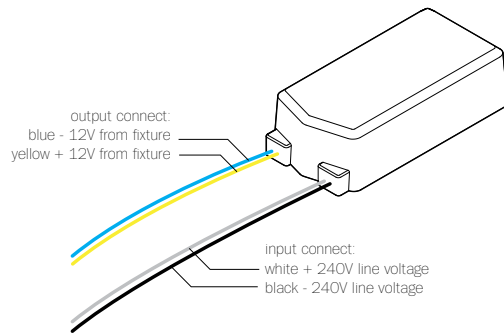
DIMMING: Dimmable using minimum 8 lamps and improves with larger load. Use low voltage electronic dimmers only

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")



## 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

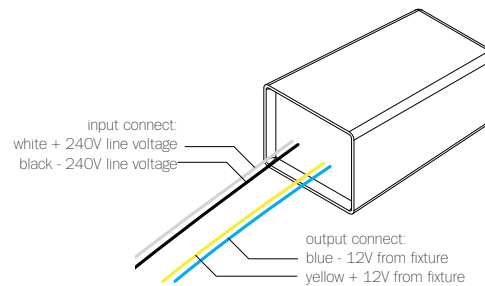
DIMMING: Dimmable using minimum 2 x 10w lamps or 1 x 20w lamp using low voltage electronic and trailing edge dimmers only.

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:  

## 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.

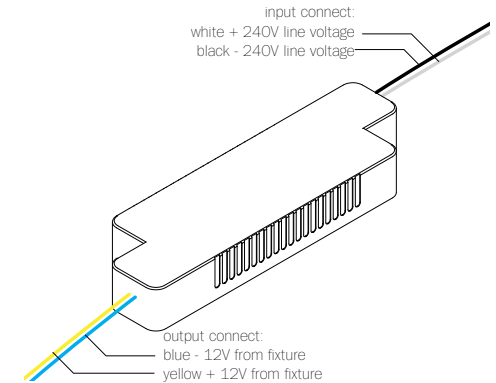
NOTES: Auto stop protected  
Class 2 power unit  
Electronic transformer for xenon lamps only

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

For additional assistance, please contact Bocci:

Vancouver  
sales@bocci.ca  
www.bocci.ca

Berlin  
europe@bocci.ca  
www.bocci.ca

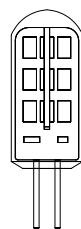
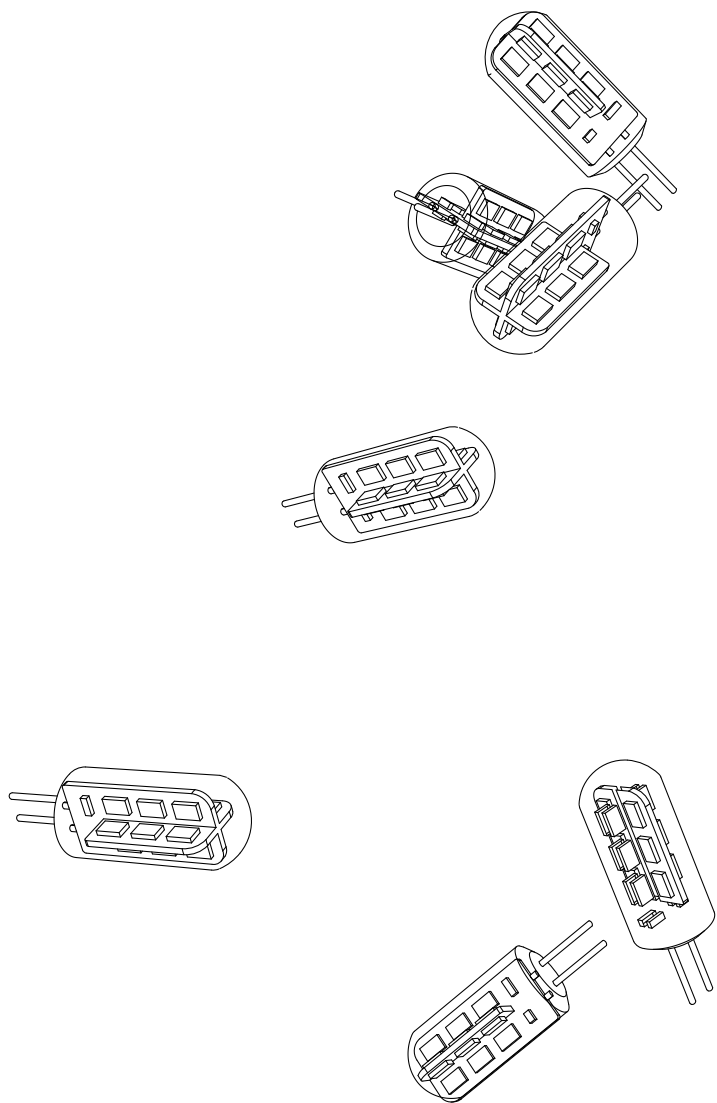
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# BOCCI

LED

1.8W

Design by Omer Arbel  
PRODUCT SPECIFICATION



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.

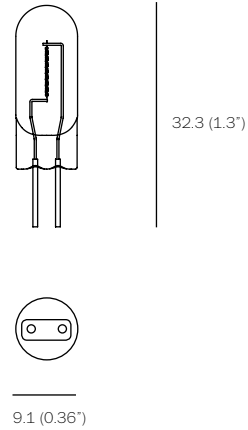
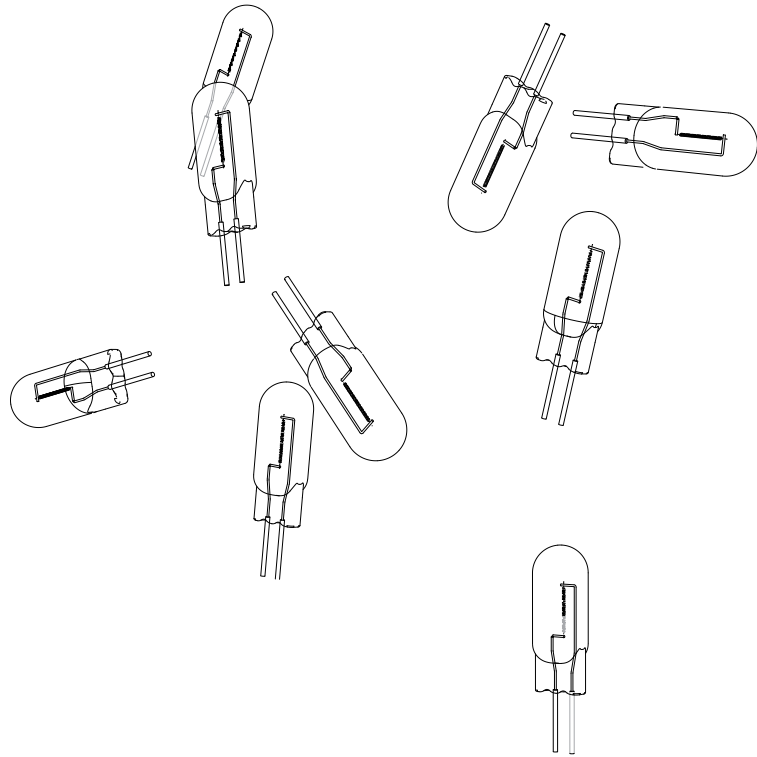
#### NOTES

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

RoHS 

Vancouver  
[sales@bocci.ca](mailto:sales@bocci.ca)  
[www.bocci.ca](http://www.bocci.ca)

Berlin  
[europe@bocci.ca](mailto:europe@bocci.ca)  
[www.bocci.ca](http://www.bocci.ca)



WATTAGE: 10w  
 COLOUR TEMPERATURE: 2600k  
 CRI: 100 (100 is daylight)  
 LIGHT OUTPUT: 81 lumens  
 EFFICIENCY: 8.3 lm/w  
 DIMMABLE: yes  
 LAMP LIFE: 20,000 hours

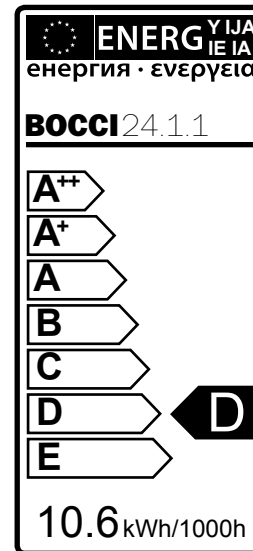
**DESCRIPTION**

The Bocci 10w 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

Vancouver  
[sales@bocci.ca](mailto:sales@bocci.ca)  
[www.bocci.ca](http://www.bocci.ca)

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[europe@bocci.ca](mailto:europe@bocci.ca)  
[www.bocci.ca](http://www.bocci.ca)

XENON  
**10W** Design by Omer Arbel  
 PRODUCT SPECIFICATION