

Need more information?

We want to help you make an informed decision in your lighting purchase.

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energy-efficient lighting

SUSTAINABLE ALTERNATIVES

Besa Lighting is committed to providing environmentally-friendly and energy-efficient lighting fixtures, while maintaining the highest level of aesthetic design possible.



Incandescent lamps may be easy to understand, but are far from efficient. When producing light by heating the filament inside the bulb, about 90% of the energy used is lost as heat.

Fortunately, energy-efficient options like **Compact Fluorescent (CFL)** and **Solid-State (LED)** light sources, are improving in quality and are gaining more mainstream acceptance. With these alternative technologies, better understanding the differences in light quality, benefits and cost play a much larger role in selecting the appropriate light source for your lighting application.

In order to meet the rapidly growing demand for these alternatives, we have offered various light sources on virtually all products presented within this catalog.

These sources are valuable tools to meeting today's stringent building codes, geared towards minimizing wattage allowances.

In an effort to assist in meeting those wattage requirements, we offer lower wattage labeling on most of our items. This is particularly useful when employing a screw-in-style socket. Consult the factory regarding your wattage labeling options.



LED solid-state lighting

Solid-state lighting is rapidly becoming the most environmentally responsible light source type available. The LED chip offers a combination of energy-efficiency, long life, and excellent color, setting it apart from other light sources. Until recently, the major drawback for solid state lighting has been its visual integrity, but that is quickly changing.

We're Very Particular, For You

You purchase Besa Lighting decorative luminaires for their appearance, and that should not be sacrificed when using an energy-efficient light source. So we have approached solid-state lighting with a distinct purpose in mind... never compromising on appearance.

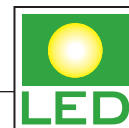
We have offered energy-efficient CFL options for several years, but had postponed offering an LED alternative until it could meet our high standards. Only now are we able to offer you LED products that we feel confident will offer proper light output and design, along with energy savings and long life.

Our LED lightsource provides:

- **360° illumination** for optimal appearance and downlighting
- Seamless integration with our pendant designs
- Design that properly manages heat at the lightsource, maximizing the long life potential of the LEDs



360° illumination makes your Besa luminaire productive as well as beautiful

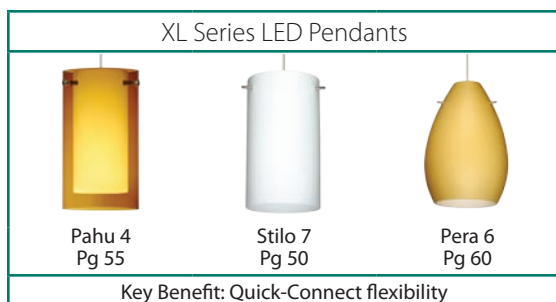


LED pendants

XL Series LED mini pendants

Selected Besa 12V mini- pendant luminaires, supplied with LED lightsource, offer the benefit of Quick-Connect mounting, for use with our 12V Monorail system.

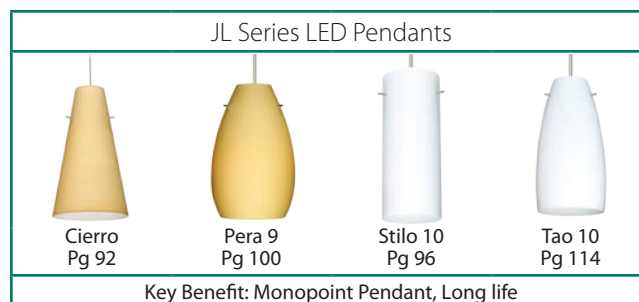
- Designed for use with all Besa Quick-Connect canopies equipped with no-load 12V electronic transformers
- Operates on Besa Monorail, with 120V magnetic power supplies
- Integral LED driver is built into heat-sink
- Total power of 4.7 watts
- Full range dimmable. When using an electronic transformer, an electronic low-voltage dimmers (ELV) is required. If a magnetic transformer is employed (on Besa monorail), a magnetic low voltage dimmer must be used.*
- Frosted acrylic diffuser encloses LED lightsource



JL Series LED midi pendants

Selected Besa 120V pendant luminaires, supplied with LED lightsource, are designed as stand-alone Monopoint fixtures.

- External constant-current LED driver is housed in the dome canopy
- LED lightsource is removable at the heat-sink, for easy replacement
- Total power of 4.7 watts
- Dimmable with electronic low-voltage dimmers (ELV)*
- Frosted acrylic diffuser encloses LED lightsource
- Contact factory for 277V options



* Consult factory for compatible dimmer information.

Besa's LED Lightsource

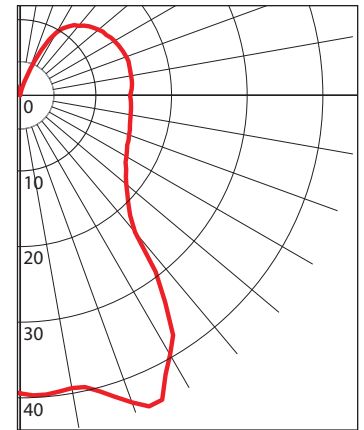
- Total power of 4.7W
- Total Lumen Output: 320*
- Lumens Per Watt (LPW): 68*
- CCT: 2800° Kelvin
- CRI: >85
- R9 Red Color Value of 50
- Rated Life: 50,000 hours, based on LM70
- For LED Lightsource and Driver warranty, contact factory.

* Average Lumens. Measured with frosted acrylic diffuser in place.

Besa LED Pendant Photometrics

- The candela distribution shown here is for Besa pendant 1JL-412407-SN Cierro, Opal Matte.
- Slight variation will occur dependant upon the specific diffuser (glass shade) that is utilized.
- IES Report # B5150L
- Lumen Output: 190*

* Measured with glass shade installed.



solid-state lighting glossary

With the emergence of these new energy-efficient light sources, an entirely new criteria has been developed to characterize the quality and type of lighting. Below is a quick glossary to better understand solid-state lighting:

Binning:

Process of sorting LEDs into groups according to a given performance measurement, typically lumen output or forward voltage.

Chromaticity:

The aspect of color that includes consideration of its dominant wavelength and purity.

Color Rendering Index (CRI):

Rating of a lamp's ability to render colors, the higher the rating, the better colors will appear. Based on a scale of 0-100, CRI differences are generally noticeable to the human eye when they exceed 5 points.

Correlated Color Temperature (CCT):

Color temperature defines the color appearance of the lamp, expressed in Kelvins (K). A higher color temperature has a bluer appearance. For example, incandescent light is 2800K and cool white is 4100K.

Die:

Fragment of semiconductor material cut out of a larger wafer, resulting in a single device.

Driver:

Self-contained power supply that has outputs matched to the LED array. For proper LED operation, matching the electrical characteristics of the LED and driver are critical.

Efficacy:

The rate at which a lamp or lightsource is able to convert power (watts) into light (lumens), expressed in Lumens Per Watt (LPW).

Energy Policy Act (EPACT):

Comprehensive energy legislation, the Energy Policy Act of 2005 represents the most significant overhaul of US energy policy since EPACT 1992.

Junction Temperature:

LED products will typically have an associated maximum junction temperature (T_j). It is critical that appropriate heat sinking is employed, so that the LED products are not operated in conditions that violate the maximum junction temperature specified by the LED manufacturer. Overheating can shorten LED life.

Light Emitting Diodes (LED):

An LED is a semiconductor encapsulated in epoxy, which illuminates when electrically biased in the forward direction. Typically the LEDs are clustered onto a Printed Circuit Board (PCB) and then incorporated into a light fixture.

Leadership in Energy and Environmental Design (LEED):

Developed by the US Green Building Council, LEED provides owners and operators a concise framework for identifying and implementing green building design, construction and operations solutions

LED Package:

Assembly that houses and protects the LED die, containing an optical system to direct the light out of the device.

Lumens:

The international unit of luminous flux, or quantity of light. Not to be confused with footcandles, which is a measure of lumens per square foot.

Lumen Maintenance (lm):

A measure of light output over time. For example, LM 70 defines the time that a light source reaches 70% of its initial output.

R9 Value:

This is the Red Color Value (CRI #9), and indicates the color representation in the red region of the spectrum. Typically the amount of luminescence in the red region has been deficient in White LEDs, so the R9 value is an important index.

Solid-State Lighting (SSL):

Refers to lighting that utilizes semiconductor light-emitting diodes (LED), organic light-emitting diodes (OLED) or polymer light-emitting diodes (PLED) as sources of illumination.

compact fluorescent lighting

Why Besa is Expanding CFL use

We're adding more CFL options to more luminaire types. Newer lamp designs, newer ballast designs, and self-ballasted lamps, make it possible to use compact fluorescent lamps in a wider range of luminaires than ever before. Besa strives to offer our customers sensible options for their lighting needs.

Direct Replacement: Screw-in SB-CFL

Consumers have an easy way to make a change. Screw-in self-ballasted CFLs can replace incandescent bulbs in many applications and are readily available.

CFL is now the most Cost-Effective Option

With broad acceptance in the marketplace, the cost of CFL lamps has dropped considerably. Effective energy saving and extended life now offer much more benefit than the minimal cost difference of old-style incandescent lamps.



standard cfl options



G24q / Gx24q Base (4 Pin)

Besa offers an extensive variety of standard CFL options. Throughout our catalog, every luminaire that is available with a compact fluorescent option is clearly denoted, and the ordering code for each specific lamp/ballast configuration is indicated. Our numbering system for these options is a 2-digit alpha-numeric code that is added to the luminaire's item number.

- Besa standard CFL luminaires utilize either instant start or rapid start Electronic Ballasts, (details below)
- 120V or 277V ballasts are available
- **Besa standard CFL luminaires are not suitable for use with standard incandescent dimmer switches.**

Standard CFL Lamps:

A number of Besa luminaires in this catalog are available with the following lamp types (dependent upon the specific luminaire series). Lamps are not provided with our 4-pin CFL luminaires. It is important to select the proper lamp type to match the luminaire ballast/lampholder configuration.

**13W Quad:**

To order luminaires with this lamp(s) the alpha code is **D** (120V) or **M** (277V). The base is G24q-1. MOL 5.2". For use with Electronic Ballast.

**18W Quad:**

To order luminaires with this lamp(s) the alpha code is **E** (120V) or **N** (277V). The base is G24q-2. MOL 5.8". For use with Electronic Ballast.

**26W Quad:**

To order luminaires with this lamp(s) the alpha code is **H** (120V) or **Q** (277V). The base is G24q-3. MOL 6.5". For use with Electronic Ballast.

**18W TBX:**

To order luminaires with this lamp(s) the alpha code is **F** (120V) or **O** (277V). The base is GX24q-2. MOL 4.6". For use with Electronic Ballast.

**26W TBX:**

To order luminaires with this lamp(s) the alpha code is **I** (120V) or **R** (277V). The base is GX24q-3. MOL 5.2". For use with Electronic Ballast.

**32W TBX:**

To order luminaires with this lamp(s) the alpha code is **K** (120V) or **T** (277V). The base is GX24q-3. MOL 5.8". For use with Electronic Ballast.

**42W TBX:**

To order luminaires with this lamp(s) the alpha code is **L** (120V) or **U** (277V). The base is GX24q-4. MOL 6.42". For use with Electronic Ballast.

**24W Twin T5:**

To order luminaires with this lamp, please contact the factory. The base is 2G11. MOL 12.8". For use with Electronic Ballast.

**36W Twin T5:**

To order luminaires with this lamp, please contact the factory. The base is 2G11. MOL 16.4". For use with Electronic Ballast.

For other lamp/ballast options, please contact the factory

Standard CFL Ballasts:

ELECTRONIC BALLASTS:

Electronic ballasts operating at a frequency above 20,000 Hz offer excellent energy efficiency and cold temperature starting. Electronic ballasts use solid-state electronic circuits to control the voltage to the fluorescent lamp, allowing for efficiency and performance. The solid-state controls allow for flicker-free starting.

Besa utilizes three types of electronic ballasts: Instant Start, Programmed Start and Rapid Start. Instant start will cause the lamp to start within 1 second but results in shorter lamp life. Rapid start will start the lamp slightly slower than instant start, but will improve the lamp life in frequent switching situations. Programmed start is similar to Rapid start, with slower startup, but increased on/off capabilities.

If you desire a specific ballast type, such as rapid start or instant start, then it is important to consult with customer service prior to ordering.

DIMMING BALLASTS:

Dimming ballasts are available in either analog or digital controls. Commonly, the dimming ballast will dim to 5% or 10% of the max output.

Within the analog controls exists Phase-Control (2 or 3 wire) and 0-10 VDC (4 wire). The 0-10 VDC is typically used on control systems, daylight harvesting or occupancy sensors. Phase control is typically preferred for retrofit, particularly in the 2 wire versions. The digitally controlled ballasts allow for a higher degree of control, with increased flexibility, and utilizes a shielded twisted pair connection. The industry standard is a digital communication protocol known as DALI (digital addressable lighting interface).

EMERGENCY BALLASTS:

Emergency ballasts are designed to provide at least 90 minutes of code-required emergency lighting. Typically equipped with a nickel cadmium battery pack, the ballasts will vary in lumen output and number of lamps operated.

If you are interested in using an emergency or dimming ballast in a Besa luminaire, please consult customer service.



GU-24 Base

Besa offers a number of luminaires with optional GU-24 lampholder(s). The GU-24 lampholder is designed to accept only high efficacy lamps. The benefits of these self-ballasted compact fluorescent lamps include:

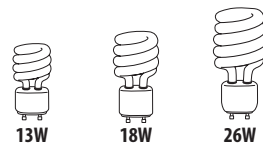
- Spiral shape is designed to directly replace A-type incandescent
- Quad-style lamps combine the longer but narrower bent-tube style of standard CFL lamps with the self-ballast design, making them suitable for longer, open glass designs
- The electronic ballast is built into the lamp
- Unique bi-pin socket prevents mis-lamping
- Saves energy, less heat
- Non-dimmable, 120V only, 2700° K

ADVANTAGE: Doesn't require separate ballast, so it can be utilized in a wider variety of fixtures

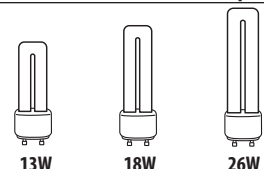
DISADVANTAGE: Susceptible to heat damage, so wattages must be strictly adhered to with enclosed fixtures

Note that lamps are not provided on Besa GU-24 luminaires, unless ordered separately. Wattages indicated are the maximum allowable for that luminaire.

Spiral GU-24 SB-CFL Lamps:



Quad GU-24 SB-CFL Lamps:



fluorescent lighting glossary

Average Rated Life:

An average rating in hours, indicating when 50% of a large sampling of lamps have failed. This lamp life testing procedure does not apply to solid-state lighting sources (e.g., LED).

Ballast:

Designed to start and operate light sources such as fluorescent lamps

Chromaticity:

The aspect of color that includes consideration of its dominant wavelength and purity.

Color Rendering Index (CRI):

Rating of a lamp's ability to render colors, the higher the rating, the better colors will appear. Based on a scale of 0-100, CRI differences are generally noticeable to the human eye when they exceed 5 points.

Correlated Color Temperature (CCT):

Color temperature defines the color appearance of the lamp, expressed in Kelvins (K). A higher color temperature has a bluer appearance. For example, incandescent light is 2800K and cool white is 4100K.

Efficacy:

The rate at which a lamp or lightsource is able to convert power (watts) into light (lumens), expressed in Lumens Per Watt (LPW).

Electronic Ballast:

Ballast equipped with solid-state electronic components to provide the proper starting and operating conditions, and typically operated at frequencies of 25-35 kHz.

End-of-Life (EOL) Protection:

Removes power from the lamp at its end-of-life, preventing the lamp from overheating.

Energy Policy Act (EPACT):

Comprehensive energy legislation, the Energy Policy Act of 2005 represents the most significant overhaul of US energy policy since EPACT 1992.

GU-24 Lamp Base:

"Twist and Lock" style base with pins spaced 24mm apart. Standardized as a high-efficiency line voltage base, resulting in a permanent savings per luminaire.

Instant Start Ballast:

Starts lamps without heating the cathodes at all, by using a high voltage (~600V). It is the most energy-efficient type, but offers the least number of starts from a lamp.

Leadership in Energy and Environmental Design (LEED):

Developed by the US Green Building Council, LEED provides owners and operators a concise framework for identifying and implementing green building design, construction and operations solutions

Lumens:

The international unit of luminous flux, or quantity of light. Not to be confused with footcandles, which is a measure of lumens per square foot.

Lumen Maintenance (lm):

A measure of light output over time. Every lamp type has a unique lumen maintenance curve depicting the pattern of decreasing light output.

Programmed Start Ballast:

Applies power to the filaments first, then after a short delay to allow cathodes to preheat, applies voltage to the lamps to strike an arc. Offers the most life and starts from lamps.

Rapid Start Ballast:

Applies voltage and heats the cathodes simultaneously. Provides better lamp life, but uses slightly more energy than instant-start ballasts.

Using The Besa CFL Charts (located on next page)

While our CFL luminaires are available in a wide variety of wattage options, the ordering info on the luminaire product pages is based on optimal lamping. The reference charts are designed to allow for the quick identification of all lamping options for Besa CFL luminaires.

The series and page number are indicated in the left columns. If a CFL configuration is available, the number of lamps is indicated (i.e. Geo 9 Ceiling is shown as D1: D = 13w Quad lamping, and 1 = number of lamps available.)

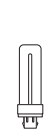
To order a CFL configuration, add this alpha-numeric code to the luminaire item number.

compact fluorescent lamping

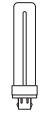
Wall & Ceiling

Luminaires

CFL OPTIONS



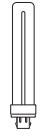
13W Quad
G24q-1
Electronic



18W Quad
G24q-2
Electronic



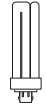
18W TBX
GX24q-2
Electronic



26W Quad
G24q-3
Electronic



26W TBX
GX24q-3
Electronic



32W TBX
GX24q-3
Electronic



42W TBX
GX24q-4
Electronic



13W
GU-24
Self-ballasted



18W
GU-24
Self-ballasted



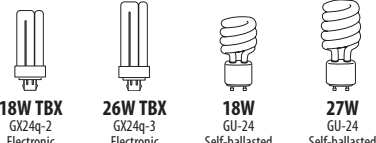
27W
GU-24
Self-ballasted

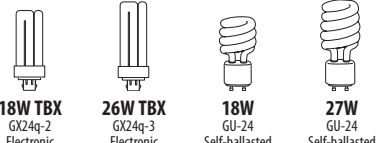
Series	Page	D		E		F		H		I		K		L		V	W	X
		120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V	277V	120V only	120V only	120V only		
Aero 16	239	1		1				1								2		
Aero 21	239	2		2				1								3		
Anna	173			1												1 ¹	1	
Baaz 16	243	1		1				1										
Baaz 20	243	2		2				1										
Bobbi 10	166	1														1		
Bobbi 12	166	2		1		1				1		1				2		
Bolla 1WZ	226															1		
Bolla 2WZ	225															2		
Bolla 3WZ	225															3		
Bolla 4WZ	225															4		
Bria 1WZ	227															1		
Bria 2WZ	227															2		
Bria 3WZ	227															3		
Bria 4WZ	227															4		
Chelsea	169				1											1 ¹	1	
Cirrus	246	1		1		1												
Darci 16	241	1		1				1								2		
Darci 21	241	2		2				1								3		
Dorain 10	182	1		1		1										1		
Dorian 17	182	1		1		1		1		1						2		
Geo 5	248	1																
Geo 9	248	1				1												
Geo 9 Ceiling	167	1														1		
Geo 11	248	2		2		2				1		1						
Geo 11 Ceiling	167	2		1		1				1		1				2		
Kailee	172	1																
Katie 10	162	1														1		
Katie 12	162	2		1		1				1		1				2		
Lina	180			1												1 ¹	1	
Luma 12 / 12 Slim	148, 150	1														1		
Luma 14 / 14 Slim	148, 150	2		1						1		1				2		
Luma 18 / 18 Slim	149, 150	2		2				2				1		1		3		
Metro	181	1		1				1								1 ^{1,2}	1 ^{1,2}	1 ²
Mira 16	146	1														1		
Mira 20	146	2		1		1				1		1				2		
Mira 24	146	2		2		2		2		2		1		1		3		
Mistral	171			2		2		2		2						2 ¹	2 ¹	2
Moto 8	253	1		1														
Moto 11	253	2		2				1										
Moto 13	253	2		2				2										
Nova 10	157	1														1		
Nova 13	157	2		1		1				1		1				2		
Nova 16	157	2		2		2		2		2		1		1		3		
Prismo 10	249	1		1		1												
Prismo 16	249	1		1		1		1		1								
Quatro 10	247	1		1		1												
Quatro 14	247	1		1		1		1		1								
Ring 13	158	1														1		
Ring 15	159	2		1		1				1		1				2		
Ring 19	159	2		2		2		2		2		1		1		3		
Rise 1WZ	231															1		
Rise 2WZ	231															2		
Rise 3WZ	231															3		
Rise 4WZ	231															4		
Sail 13/17	183	1		1														
Sasha II 1WZ	229															1 ¹	1	
Sasha II 2WZ	230															2 ¹	2	
Sasha II 3WZ	230															3 ¹	3	
Sasha II 4WZ	230															4 ¹	4	
Scala 13	250	1		1		1												
Scala 20	251	2		1		1		1		1								
Slipstream 11 / 11 Slim	151, 152	1														1		
Slipstream 13 / 13 Slim	151, 152	2		1						1		1				2		
Slipstream 16 / 16 Slim	151, 153	2		2				2				1		1		3		
Sola 10	165	1														1		
Sola 12	165	2		1		1				1		1				2		
Sola 16	164	2		2		2		2		2		1		1		3		
Sola 19	164	2		2		2		2		2		1		1		3		
Sonya 13	163															1		
Sonya 17	163															2 ¹	2	
Sonya 20	163															3 ¹	3	
Tamburo 7	175	1		1												1 ¹	1	
Tamburo 8	176	1		1												1 ¹	1	
Tamburo 11	177	2		2						1		1				2 ¹	2	

1) Typically, GU-24 wattages indicates the max wattage allowed. Lower wattages can be selected, where lower wattage labeling is desirable.
2) Quad style GU-24 self-ballasted lamp is required.

compact fluorescent lamping

Wall & Ceiling, Cont.		13W Quad Electronic		18W Quad Electronic		18W TBX Electronic		26W Quad Electronic		26W TBX Electronic		32W TBX Electronic		42W TBX Electronic		13W Self-ballasted	18W Self-ballasted	27W Self-ballasted
Series	Page	D 120V	M 277V	E 120V	N 277V	F 120V	O 277V	H 120V	Q 277V	I 120V	R 277V	K 120V	T 277V	L 120V	U 277V	V 120V only	W 120V only	X 120V only
Tamburo 16	154															3		
Tamburo 16v2	155															3		
Tino 13	245		1		1				1									
Tino 18	245		2		2				1									
Tomas	170				1											1 ¹	1	
Torre 14	178				1											1 ¹	1	
Torre 18	179				2				2							2 ¹	2	
Torre 22	179				2		2		2		2					2 ¹	2 ¹	2
Trio 12	161		1		1		1			1						1 ¹	1	
Trio 16	161		2		2		2		2		2		2		1	2 ¹	2	
Trio 20	161		2		2		2		2		2		2		1	3 ¹	3	

Pendant Luminaires CFL OPTIONS			 18W TBX GX24q-2 Electronic 26W TBX GX24q-3 Electronic 18W GU-24 Self-ballasted 27W GU-24 Self-ballasted			
Family	Page	Series	F 120V only	H 120V only	W 120V only	X 120V only
120V Cord-hung or Stem Pendants						
Cierro	92	1JC	1		1 ¹	1
		1JT			1 ¹	1
		1TC	1		1 ¹	1
		1TT			1 ¹	1
		3-Light			3 ¹	3
		6JC			6 ¹	6
Juli	107	1JC	1		1	
		1JT			1	
		1TC	1		1	
		1TT			1	
		3-Light			3	
		6JC			6	
Lucia	94	1JC	1		1	
		1JT			1	
		1TC	1		1	
		1TT			1	
		3-Light			3	
		6JC			6	
Luna	115	1JC	1		1 ¹	1
		1JT			1 ¹	1
		1TC	1		1 ¹	1
		1TT			1 ¹	1
		3-Light			3 ¹	3
		6JC			6 ¹	6
Pape	111	1JC	1		1 ¹	1
		1JT			1 ¹	1
		1TC	1		1 ¹	1
		1TT			1 ¹	1
		3-Light			3 ¹	3
		6JC			6 ¹	6
Pera 9	100	1JC	1		1 ¹	1
		1JT			1 ¹	1
		1TC	1		1 ¹	1
		1TT			1 ¹	1
		3-Light			3 ¹	3
		6JC			6 ¹	6
Riva 9	112	1JC	1	1	1	
		1JT			1	
		1TC	1	1	1	
		1TT			1	
		3-Light			3	
		6JC			6	
Stilo 10	96	1JC	1	1	1 ¹	1
		1JT			1 ¹	1
		1TC	1	1	1 ¹	1
		1TT			1 ¹	1
		3-Light			3 ¹	3
		6JC			6 ¹	6
Stilo 16	99	1JC	1	1	1 ¹	1
		1JT			1 ¹	1
		1TC	1	1	1 ¹	1
		1TT			1 ¹	1
		3-Light			3 ¹	3
		6JC			6 ¹	6
Suzi	102	1JC	1	1	1 ¹	1
		1JT			1 ¹	1
		1TC	1	1	1 ¹	1
		1TT			1 ¹	1
		3-Light			3 ¹	3
		6JC			6 ¹	6

Pendant Luminaires CFL OPTIONS, Cont.			 18W TBX GX24q-2 Electronic 26W TBX GX24q-3 Electronic 18W GU-24 Self-ballasted 27W GU-24 Self-ballasted			
Family	Page	Series	F 120V only	H 120V only	W 120V only	X 120V only
120V Cord-hung or Stem Pendants						
Tao 10	114	1JC	1	1	1	
		1JT			1	
		1TC	1	1	1	
		1TT			1	
		3-Light			3	
		6JC			6	
Vila	104	1JC			1	
		1JT			1	
		1TC			1	
		1TT			1	
		3-Light			3	
		6JC			6	
Cable or Stem Pendants						
Amelia 12	128	1KG			1	
		1TT			1	
Amelia 15	129	1KV			3 ¹	3
		1KT			3 ¹	3
Amelia 18	129	1KV			3 ¹	3
		1KT			3 ¹	3
Callisto 12	134	1KX			1 ¹	1
Callisto 14	134	1KX			1 ¹	1
Jordo	116	1KX	1	1	1 ¹	1
		1TC	1	1	1 ¹	1
		1TT	1	1	1 ¹	1
Mondo 20	125	1KV			3 ¹	3
Pahu 8	127	1KG			1 ¹	
		1TT			1 ¹	
Pahu 12	127	1KG				1
		1TT				1
Pahu 16	127	1KG				1
		1TT				1
Porto	120	1KX	1		1	
		1TC	1		1	
		1TT	1		1	
		1VC	1		1	
		1TT	1		1	
Tamburo 8	130	1KG			1 ¹	1
		1TT			1 ¹	1
		1KG			1 ¹	1
Tamburo 12	131	1KG			1 ¹	1
		1TT			1 ¹	1
		1KV			3 ¹	3
Tamburo 16	132	1KV			3 ¹	3
		1KT			3 ¹	3
		1KV			3 ¹	3
Tamburo 16v2	133	1KT			3 ¹	3
		1KV			3 ¹	3
		1KT			3 ¹	3
Tara	122	1KX	1	1	1 ¹	1
		1TC	1	1	1 ¹	1
		1TT	1	1	1 ¹	1
		1VC	1	1	1 ¹	1
		1VT	1	1	1 ¹	1
		1VT	1	1	1 ¹	1
		1VT	1	1	1 ¹	1
Tondo 12	117	1KX	1	1	1 ¹	1
		1TC	1	1	1 ¹	1
		1TT	1	1	1 ¹	1
		1VC	1	1	1 ¹	1
		1VT	1	1	1 ¹	1
Tondo 18	118	1KX	1	1	1 ¹	1
		1TC	1	1	1 ¹	1
		1TT	1	1	1 ¹	1
		1VC	1	1	1 ¹	1
		1VT	1	1	1 ¹	1
Torre	124	1KG			1 ¹	1
		1TT			1 ¹	1

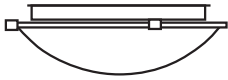
1) Typically, GU-24 wattages indicates the max wattage allowed. Lower wattages can be selected, where lower wattage labeling is desirable.

Product Listings

All Besa luminaires are engineered and manufactured to the highest possible standards. Every Besa luminaire carries the listing mark of a Nationally Recognized Testing Laboratory (either UL, ETL or CSA) thus ensuring that they have been determined to meet the nationally recognized standards for safety. It is the responsibility of the installer of Besa luminaires to understand and follow all national and local electric codes as they pertain to specific installations. Attention must be given to using luminaires in the proper location (see Locations, above). If in doubt as to a correct installation or proper location for a luminaire, please consult the Local Authority Having Jurisdiction (LAHJ). Ultimately, the LAHJ has the authority and experience to assure proper and safe luminaire installation and use. Besa assumes NO liability for improperly installed luminaires.

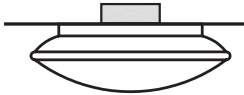
Thermal Protection

Selected Besa halogen ceiling luminaires employ a device that is designed to prevent continuing operation of an overheated luminaire. In an overheating condition, Besa halogen ceiling mount luminaires equipped with thermal protection are designed to shut off if operating temperatures (within the ceiling junction box) exceed the required 90°C temperature rating of the supply wiring.



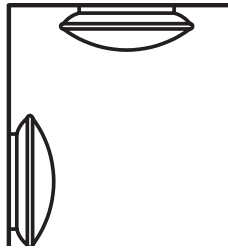
Supply Wire Ratings

Supply wiring must meet the temperature requirements of the luminaire. Many Besa luminaires require that the supply wire ratings be either 75°C or 90°C. All Besa incandescent (including halogen) flush mount ceiling luminaires require supply wiring rated to 90°C. The installation of a luminaire to supply wiring not rated as required may result in failure of the supply wiring insulation, causing a fire or shock hazard. If in doubt, consult a qualified electrician or the Local Authority Having Jurisdiction.



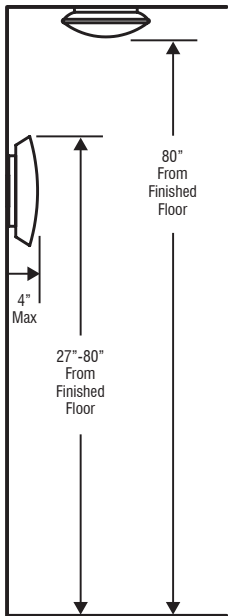
Orientation

Some Besa luminaires are offered in both wall mount and ceiling mount versions. Besa wall mount and ceiling mount luminaires are manufactured to different specifications and it is extremely important to order the luminaire based upon its intended use. Ceiling mount luminaires require additional safeguards to prevent unsafe operating temperatures (see Supply Wire Ratings). Besa wall luminaires (marked as such) may not be safely installed on ceilings.



ADA Compliance

The Americans with Disabilities Act is commonly referred to as the ADA. The ADA created guidelines for objects projecting from walls and ceilings in virtually all non-residential publicly accessible places. Where applicable, wall luminaires that are positioned between 27" and 80" above the finished floor shall not protrude more than 4" into passageways (aisles, corridors, halls, etc.) Besa wall luminaires that meet this requirement within this catalog are noted **ADA-COMPLIANT**, indicating compliance with the ADA.



Installation Locations

Understanding DRY, DAMP and WET location types is critical for proper installation and safe use of all luminaires. Besa manufactures luminaires in each of these three location types. Every effort has been made to indicate location types throughout this catalog. Further, location types are clearly marked on every Besa luminaire. Installing a luminaire in an improper location is a safety hazard. If in doubt, contact the Local Authority Having Jurisdiction.

DRY LOCATIONS: Locations not normally subject to dampness or wetness. A luminaire marked as suitable for use in a damp or wet location may also be used in a dry location.

DAMP LOCATIONS: Locations protected from direct precipitation but subject to moderate degrees of moisture. Partially protected outdoor locations such as under roofed open porches and interior locations such as bathrooms and basements.

Important Note: Many Besa luminaires that are marked as suitable for Damp Locations are not recommended for use in exterior Damp Locations. Examples of this are luminaires designed for use as bath/vanity lighting. Such distinctions are noted throughout this catalog. Luminaires marked as suitable for wet locations may be utilized in damp locations.

WET LOCATIONS: Unprotected locations subject to direct exposure to water or precipitation. Besa luminaires marked as suitable for use in wet locations are intended to be utilized in exterior environments.

Use of Besa wet location luminaires in interior wet locations such as showers or bathtub areas is not recommended as there are stringent safety codes governing such use. If in doubt about such use, consult the Local Authority Having Jurisdiction.

Dimming

The ability to control light levels via dimmer controls is often desired in interior lighting schemes. All Besa incandescent (including halogen) luminaires are suitable for use with dimmer switches.

Besa CFL luminaires are NOT suitable for use with dimmer switches.

Dimming 120V Incandescent Luminaires:

Besa 120V incandescent or halogen luminaires require the use of a standard incandescent dimmer rated for the total wattage controlled. Standard screw-in or GU-24 self-ballasted compact fluorescent lamps are NOT dimmable. The use of a dimmer control switch with compact fluorescent lamps will damage the ballast.

Dimming 12V Incandescent Luminaires:

For optimum performance, an electronic or magnetic low voltage dimmer should be used, depending on the transformer type. Installation of a low voltage dimmer requires a neutral lead in the switch box for proper wiring. Several brands of electronic and magnetic low voltage dimmers are available. Contact customer service for questions and recommendations.

If employing a standard incandescent dimmer, low levels of noise ("buzzing") may emanate from either the dimmer or transformer. This is usually caused by dimmer/transformer incompatibility and may be eliminated by simply replacing the dimmer with another of the same type.

Dimming LED Luminaires:

An electronic low-voltage dimmer (ELV) is required to dim our JL Series LED pendants, which employ an electronic driver.

Our XL series LED pendants utilize either an electronic transformer or a magnetic transformer (on our monorail). When an electronic transformer is used, an electronic low voltage dimmer (ELV) is required. With a magnetic transformer, a magnetic low voltage dimmer must be used. Consult factory for recommended dimmer manufacturers and models.

Care Of Finishes

Glass is an integral part of all Besa luminaires. All glasses and glass finishes, whether for interior or exterior use, are produced to perform their intended function. The metal finishes of Besa luminaires are produced to these same standards. Luminaires that are intended for exterior use must contend with the additional burden of wear due to exposure to the elements. Besa luminaires intended for outdoor use will endure most normal conditions. Besa considers extreme salt-air or acid rain conditions to be abnormal conditions.

Several of the finishes utilized in Besa outdoor luminaires are better suited for use in these salt-air conditions, such as our marine-grade stainless steel collection or luminaires with glasses of opal, frost or marble finishes (since these finishes are created within the glass itself). Periodic cleaning with a mild cleaning solution and a soft cloth will help ensure a lasting finish of all Besa exterior luminaires. Besa stainless steel fixtures require a periodic cleaning to prevent the accumulation of dirt/contaminants that will eventually cause the appearance of rust, and in extreme cases, finish failure.

12V Cords With Teflon Jackets

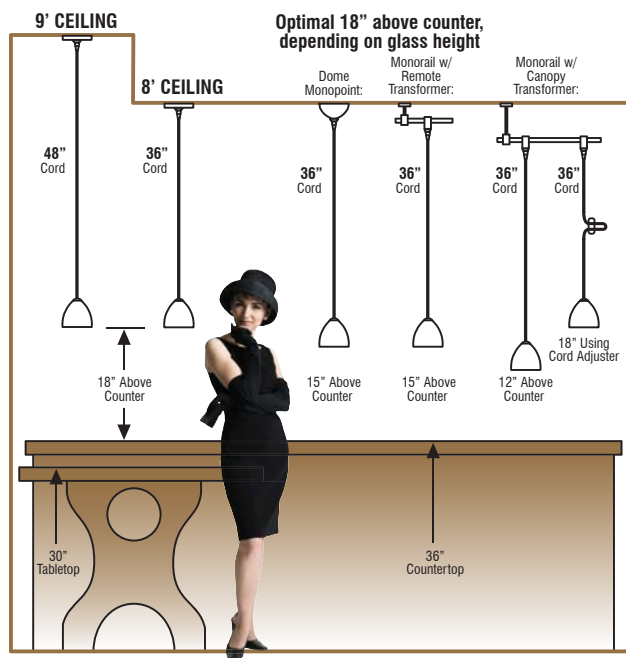
Besa XP Series Pendants employ a braided coaxial type cord with a teflon jacket. This outer jacket offers several benefits to the owner.

- 1) Easy to clean, less susceptible to collecting dust
- 2) Will not snag, kink or tear
- 3) Eliminates potential for arcing or shorting

12V Cord Length Options

Besa XP Series Pendant Elements are provided with standard 10' cord. Other cord lengths may also be ordered.

- For 36" cord (designed for use over standard counters from 8' ceiling), add "3" to the end of the item ordering number, i.e. XP-174352-BR3.
- For 48" cord (designed for use over standard counters from 9' ceiling), add "4" to the end of the item ordering number, i.e. XP-177918-SN4.
- For longer 15' cord, add "L" to the end of the item ordering number, i.e. XP-174352-SNL.



12V Quick-Connect Pendants

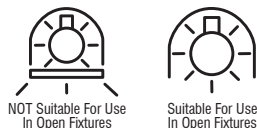
Besa 12V Mini Pendants are quick-connect style, referring to the method of connecting the pendant to the 12V transformer supplied with the companion ceiling canopies or monorail. This connection method is utilized with our Canopies and Monorail Kits. It employs a quick-connect jack (provided with each pendant element) and an adapter (supplied with the canopy, or available for rail).

We also make available, as a 1XC, a fixed-connect pendant. This connection type is utilized with our single dome canopy. The canopy provides an integral 60W, Class 2 electronic transformer. A permanent connection between the pendant and transformer is made during installation.

Low Pressure Halogen Lamps

Besa 12V Quick-Connect Pendant Elements are provided with a low pressure halogen lamp, suitable for use in Open Fixtures. A halogen lamp shield is not required. Lamps suitable for use in Open Fixtures must be used when relamping. A benefit to eliminating the lamp shield is a reduction in heat and an increase in light output.

Please note, if a halogen lamp that is not suitable for use in Open Fixtures is used, then a halogen lamp shield would be required. These may be ordered separately. The marking on the lamp carton indicates the use, based on these icons:



12V Power Supplies

MONOPOINT & MULTILIGHT CANOPIES:

Besa 12V Quick-Connect canopies employ electronic transformers. These top quality transformers incorporate several features, some patented, which make them best for use with our luminaires.

Class 2: These transformers are energy limiting UL Recognized Class 2 type, ensuring that the output cannot cause electrical shock.

Auto-Thermal Regulation: The auto-thermal regulation feature provides protection against overheating by sensing abnormal operating temperatures and automatically reducing the transformer output, thus protecting the transformer. Such a condition might occur when a luminaire is over-lamped with a higher than rated wattage lamp.

No-Load: The typical electronic transformer will require up to a 10W load to operate. Our transformers actually require no-load, so they are compatible with our low-wattage LED light sources.

Short Circuit Protection: The short circuit protection feature will cause a transformer to shutdown under short circuit conditions, preventing the transformer from damage or overheating. Once the short circuit is repaired, the transformer will automatically restart.

Soft Start: The soft start feature allows the lamp to turn on/off in a fashion that maximizes lamp life.

MONORAIL SYSTEM:

The low voltage transformers available for our Monorail System are 300W, which can power up to six 50W elements. Depending on the design requirements, an electronic or magnetic type can be ordered.

Electronic transformers are smaller and lighter, so they are preferred for their low-profile appearance. It is important to use a low voltage electronic dimmer, as failure to do so can substantially shorten the useful life of the transformer.

Magnetic transformers are desirable for reliability and ease of dimming, so they are typically recommended for commercial applications. Our magnetic surface transformers come standard with a debuzzing coil to reduce noise when using a low voltage magnetic dimmer.

Important: Magnetic transformers must be selected when using our LED pendants on monorail

REMOTE TRANSFORMERS:

When using a remote style transformer, the transformer must be installed in an accessible location such as a closet. Because of voltage drop, it is important to select the appropriate gauge wire to run from the remote transformer to the monorail feed. Failure to do so can result in excessive voltage drop, which causes the lamps to dim.

REMOTE TRANSFORMER WIRE CHART				
300W 12V System				
Distance	10'	20'	30'	40'
Wire	#10 AWG	#8 AWG	#6 AWG	#4 AWG

Our magnetic remote transformer has multiple secondary connections, which can be used to compensate for voltage drop. It is important to follow the installation instructions, as over-driving the lamps can dramatically shorten lamp life.

Important: Magnetic transformers must be selected when using our LED pendants on monorail

Voltage Drop: 12V Pendants

It is important to understand that the cord/cable length and type will affect the light output of a Besa 12V pendant luminaire. Below is the expected percentage of light output based upon length and types of cord/cable:

CORD/CABLE LENGTH (in feet)	PERCENTAGE OF LIGHT OUTPUT	
	Teflon Cord XP Series	Bare Braided Cable XA Series
1	98.0% (11.6V)	98.0% (11.6V)
2.5	95.5% (11.5V)	92.0% (11.3V)
5	92.0% (11.3V)	75.0% (10.7V)
7.5	86.0% (11.1V)	63.0% (10.1V)
10	83.5% (11.0V)	52.0% (9.5V)
12.5	80.5% (10.8V)	Not Recommended*
15	78.0% (10.7V)	Not Recommended*

* If the desired length of cable on Besa XA series pendant (from the transformer) exceeds 10' then a high output transformer should be employed. Contact customer service for details.

Skyhook™

Besa's patented and trademarked Skyhook™ suspension hook is utilized with XP and 1XC Series 12V pendants. These contemporary suspension hooks permit an installer to position cord drops as desired, and are particularly effective in situations where ceiling junction boxes are not ideally located. Included hardware allows for installation in most common ceiling materials. Suitable for use on sloped ceilings.

- T100BR** Bronze finish
T100SN Satin Nickel finish



Stemhook

Stemhooks are used with our 120V cord pendants (B, Q and J Series). They permit an installer to position cord drops as desired, especially in situations where ceiling junction boxes are not ideally located. Hardware is included that allows for installation in most common ceiling materials. Suitable for use on sloped ceilings.

- T103BR** Bronze finish
T103SN Satin Nickel finish



Cord Adjuster:

Our clear acrylic cord adjuster allows for easy shortening of low voltage pendant cords with no cutting required.

CA1-CL



Stem Sections

Interlocking stem sections may be ordered for Besa pendant luminaires. These 7/16" diameter stem sections can easily be added to increase the overall drop length. Available in 3 different lengths.

Note: when adding to the length of the pendants, overall length is not to exceed 15' (the provided wiring length). They may not be field cut.

- T203-BR** 3" Section, Bronze finish
T203-SN 3" Section, Satin Nickel finish
T206-BR 6" Section, Bronze finish
T206-SN 6" Section, Satin Nickel finish
T212-BR 12" Section, Bronze finish
T212-SN 12" Section, Satin Nickel finish
T218-BR 18" Section, Bronze finish
T218-SN 18" Section, Satin Nickel finish



Cord Sleeves

Optional "cord sleeves" may be ordered to complement Besa 120V pendants (B, Q and J Series). The 1/4" diameter sleeves will conceal the SVT cord to give a refined appearance. They are produced in 18" section lengths and may be "field cut" as desired. They are made of solid brass and are offered in Bronze or Satin Nickel finish to match the pendants.

- T118-BR** 18" Sleeve, Bronze finish
T118-SN 18" Sleeve, Satin Nickel finish

Lamps

The selection of lamps shown below are used in Besa luminaires. These lamps are provided with the initial purchase of each luminaire but may also be ordered utilizing the below item numbers.

B5501	150w	•	120V	•	T3 Halogen 3-1/8"
B5502	50w	•	120V	•	E12 Xenon
B5503	50w	•	120V	•	T4 E11 Halogen Minican
B5504	75w	•	120V	•	T4 E11 Halogen Minican
B5506	50w	•	12V	•	T4 GY6.35 Halogen Bi-Pin, clear*
B5507	35w	•	12V	•	T4 GY6.35 Halogen Bi-Pin, clear*
B5508	50w	•	12V	•	T5 GY6.35 Xenon Bi-Pin, frosted*
B5510	50w	•	12V	•	MR16 Halogen (lensed) Flood
B5511	35w	•	12V	•	T5 GY6.35 Xenon Bi-Pin, frosted*
B5512	50w	•	120V	•	Halogen G9 Bi-Pin, clear
B5513	40w	•	120V	•	Halogen G9 Bi-Pin, frosted*
B5515	100w	•	120V	•	Halogen G9 Bi-pin, clear
B5516	60w	•	120V	•	Halogen G9 Bi-Pin, frosted*
B5550	35w	•	12V	•	MR11 Halogen (lensed) Flood
B5551	50w	•	12V	•	MR16 Halogen (lensed) frosted

* Low-pressure lamps

Compact Fluorescent Lamps

Besa GU-24 luminaires are provided with empty sockets, lamps may be ordered utilizing the below item numbers.

B5518	18w, CFL Spiral lamp, GU-24 base
B5522	13w, CFL Quad lamp, GU-24 base
B5525	18w, CFL Quad lamp, GU-24 base
B5527	26w, CFL Spiral lamp, GU-24 base
B5528	26w, CFL Quad lamp, GU-24 base
B5532	13w, CFL Spiral lamp, GU-24 base
B5533	13w, CFL Spiral lamp, medium screw base



Transformers & Drivers

These transformers are utilized in Besa luminaires. They may also be ordered separately.

B5601	60w	•	12V	•	Class 2, N/O
B5602	60w	•	12V	•	Class 2, H/O
B5605	60w	•	12V	•	Class 2, Dimming*
B5690	6w	•	12V	•	LED Driver, Dimming
B5635	60w	•	12V	•	Class 2, No-load LED-compatible, Dimming

N/O= normal output

H/O= high output (recommended in only certain instances)

Consult factory for details.

*This transformer is a dimming loop type, used on Besa 1WU and 1WW swing-arm wall sconces.

Halogen 12V Lamp Shield

Besa's low voltage halogen mini pendants are provided with a low-pressure halogen lamp. A lamp shield is not required. If desired, our frosted halogen lamp shield may be ordered separately, allowing for the use of halogen lamps that require shielding.

- B5500** Halogen Lamp Shield



Glare Shields

Several of our pendants and flushmount ceiling luminaires employ a bottom glass glare shield, to prevent direct viewing of the lamping.

S2791	10.75" Dia. Frosted Glass Shield
S2792	14.5" Dia. Frosted Glass Shield

Rail Adapter

For connecting Spotlight or Pendant Elements to Besa monorail systems.

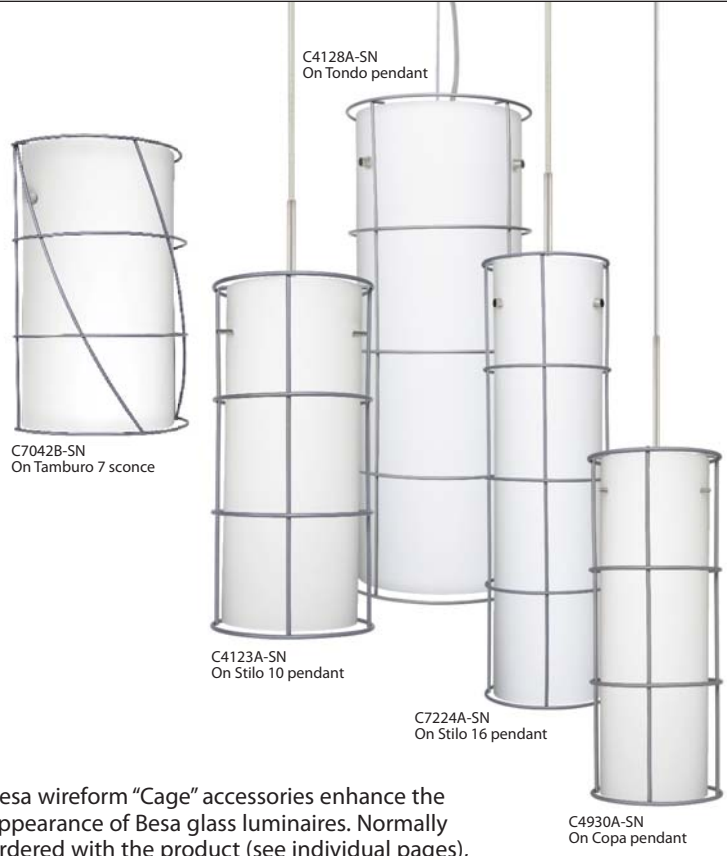
- R12-QCADP-BR** Bronze
R12-QCADP-SN Satin Nickel



Quick Jack

Replacement part for Quick-Connect Pendants.

- TJACK-BR** Bronze
TJACK-SN Satin Nickel



Besa wireform "Cage" accessories enhance the appearance of Besa glass luminaires. Normally ordered with the product (see individual pages), they are also available separately.



TuTu Pendant:
Pg. 76

- | Item / Style | A | B |
|----------------------------------------|---|---|
| C4121A-BR Straight Bronze | | |
| C4121A-SN Straight Satin Nickel | | |
| C4121B-BR Curved Bronze | | |
| C4121B-SN Curved Satin Nickel | | |

Suzi Pendant:
Pg. 102

- | Item / Style | A | B |
|----------------------------------------|---|---|
| C4897A-BR Straight Bronze | | |
| C4897A-SN Straight Satin Nickel | | |
| C4897B-BR Curved Bronze | | |
| C4897B-SN Curved Satin Nickel | | |

Tara Pendant:
Pg. 122

- | Item / Style | A | B |
|----------------------------------------|---|---|
| C4127A-BR Straight Bronze | | |
| C4127A-SN Straight Satin Nickel | | |
| C4127B-BR Curved Bronze | | |
| C4127B-SN Curved Satin Nickel | | |

Copa Mini Pendant:
Pg. 84

- | Item / Style | A | B |
|----------------------------------------|---|---|
| C4930A-BR Straight Bronze | | |
| C4930A-SN Straight Satin Nickel | | |
| C4930B-BR Curved Bronze | | |
| C4930B-SN Curved Satin Nickel | | |

Stilo 10 Pendant:
Pg. 96

- | Item / Style | A | B |
|----------------------------------------|---|---|
| C4123A-BR Straight Bronze | | |
| C4123A-SN Straight Satin Nickel | | |
| C4123B-BR Curved Bronze | | |
| C4123B-SN Curved Satin Nickel | | |

Stilo 16 Pendant:
Pg. 99

- | Item / Style | A | B |
|----------------------------------------|---|---|
| C7224A-BR Straight Bronze | | |
| C7224A-SN Straight Satin Nickel | | |
| C7224B-BR Curved Bronze | | |
| C7224B-SN Curved Satin Nickel | | |

Tondo Pendant:
Pg. 118

- | Item / Style | A | B |
|----------------------------------------|---|---|
| C4128A-BR Straight Bronze | | |
| C4128A-SN Straight Satin Nickel | | |
| C4128B-BR Curved Bronze | | |
| C4128B-SN Curved Satin Nickel | | |

Tamburo 7 Wall Luminaire:
Pg. 174

- | Item / Style | A | B |
|----------------------------------------|---|---|
| C7042A-BR Straight Bronze | | |
| C7042A-SN Straight Satin Nickel | | |
| C7042B-BR Curved Bronze | | |
| C7042B-SN Curved Satin Nickel | | |






















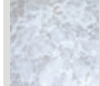































































































décor cross-reference

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décor cross-reference

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décor cross-reference

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