



RING OF FIRE[®]

WALL AND PENDANT LUMINAIRES

RING OF FIRE®

Wall and pendant luminaires

RING OF FIRE, RING OF PLEASURE

The “ring of fire” is a volcano belt that surrounds the Pacific Ocean; it is an image of the incomparable forces of nature. A parallel? Definitely. Although this luminaire was exclusively created for the benefit of its users and is fed by the latest LED technology instead of lava – in terms of dimension, shape and power this RING OF FIRE seems amazingly similar to its natural counterpart.

The diffuser is made of superbly hand-blown, satin finished opal glass, while the supporting ring is made of anodized aluminium – thus maximizing the effect of the luminaire’s glass and light. Its naturally soft, practically sensual and homogeneous light meets exacting architectural standards and is ideal for nursing homes and other healthcare facilities. Their DALI dimming function allows for the desired lighting for just about any space to be achieved.

RING OF FIRE is an aesthetically pleasing and durable interior design element, which can be used in many different settings, as it is available in a wide range of variants and sizes. However, the most eye-catching model is undoubtedly the ring of fire with inserted Murano glass disk, which makes this fixture a real one of a kind element.

Our RING OF FIRE is also available as a surface mount ceiling luminaire and as a wall luminaire, which, although it uses only half a ring, is by no means less attractive.

ADDITIONAL ADVANTAGES

- ⊕ Made in Germany
- ⊕ An interior pendant luminaire that is in a class of its own
- ⊕ Power supply through the suspension cable
- ⊕ With outstanding design and durability attributes:
 - Pendant mount ring-shaped luminaire
 - Luminaire with opal or Murano glass insert
 - Surface mount half-ring-shaped wall luminaire
- ⊕ Steplessly adjustable steel cable suspension; special lengths are available on request
- ⊕ Provides a large amount of indirect light
- ⊕ Lighting technology and form lend themselves to long service life as a design element for interior decoration
- ⊕ Versions with smart-free Bluetooth control for wireless network and operation using Android / iOS devices, free app available for download
- ⊕ Tunable white versions dynamically adjustable from 2700 K to 6500 K





RING OF FIRE®

HCL (Human Centric Lighting)



FEEL BETTER, BE MORE EFFICIENT

During evolution humans have developed a complex system of internal timers, the so-called circadian system by the perception of light and dark, cold and warm, as well as by the change of seasons, with daylight being the natural timer for this rhythm.

Only a few years ago scientists discovered in the eye's retina those cells which are not required for seeing, but are setting our internal timer by suppressing or distributing the hormone melatonin. Now chronobiologists, lighting designers and architects have the chance to decisively improve our living conditions by using dynamic light.

Biologically effective light in "tunable white" versions aims to support the hormone control process by simulating the light colour and intensity of the natural course of daylight.

Changing light moods in the dynamic rhythm of daylight can have an extremely positive influence on wellbeing.

Light management systems such as RZB light control⁺3 with the appropriate sensor technology can automatically regulate these processes. Versions with the RZB smart+free component allow personal access to light scenarios controlled by an app.



HEALTH

HCL strengthening the biological rhythm of human beings and fostering well-being and good health.



VITALITY

HCL creating a stimulating light to increase vitality and quality of life.



ACTIVITY

HCL increasing in educational institutions and workplaces the performance and ability of focusing.



WELL-BEING

HCL avoiding sleep disorder, stabilising patients in hospitals and nursing homes.



RING OF FIRE®

Making of ...



... PASSION FOR UNIQUE GLASS OBJECTS

Ring of Fire glass rings are made by a prominent glass company. The ring is made of mouth-blown three-layer glass comprising a layer of opal glass sandwiched between layers of transparent glass.

This structure protects the fragile opal glass from breakage. In this process, using a blowpipe the glassblower removes 1,200 °C glass from the glass furnace, which must be kept in operation 24/7 year round in order to be cost effective.

The glassblower then forms the gob (the 16 kg heavy molten glass) by blowing into the blowpipe and rotating it, to prevent solidification of the molten glass. This element is then blown further in a special ring mould. The initial prototypes are normally made in a wood mold. For Ring of Fire, this was a Beech form that was around one meter in diameter. This form was then replaced by a metal form, as the wooden mould can only be used for a few luminaires until it finally burns up, despite being kept continuously wet.

The water prevents the wood from disappearing and allows for prototypes with a consistent form. At the same time, the thin film of water creates a natural barrier layer between the glass and wood – a function performed by lubricant in the metal form.

Thanks to RZB's extensive experience with glass and the outstanding skills of the Ring of Fire team (designer, manufacturer and glassblower), it only took five attempts to come up with a marketable product.

Owing to the differing expansion coefficients of the glass used, it takes another 24 hours or so for the around 330 °C blank to be tempered; more rapid cooling would cause the glass to explode. Once the tempering process has been completed, the caps used for the glass-blowing phase are sliced off using a diamond saw.

The ring is then finished in an etching bath, which deposits a matt surface on the outer transparent-glass layer. This underscores the magnificent quality of the light produced by Ring of Fire luminaires. In a final step, each glass ring is carefully inspected for dimensional conformance, quality, sturdiness and stability.

The minute air inlets here and there in the glass are a very special feature of RZB's Ring of Fire luminaires, attesting as they do to the individual, handcrafted quality of these products.

These various steps ensure that each **RING OF FIRE** luminaire is a **unique**, mouth-blown glass object.





RING OF FIRE®

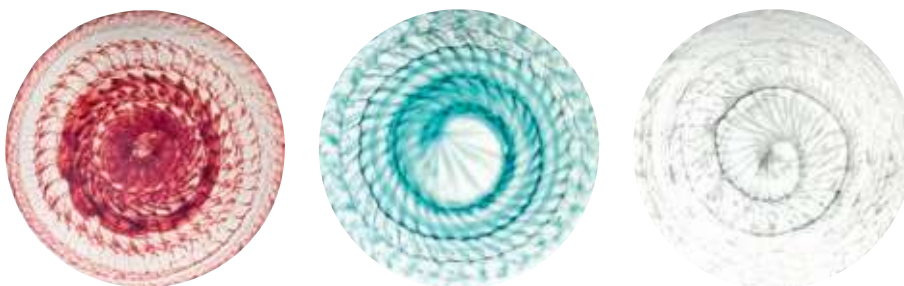
Murano glass

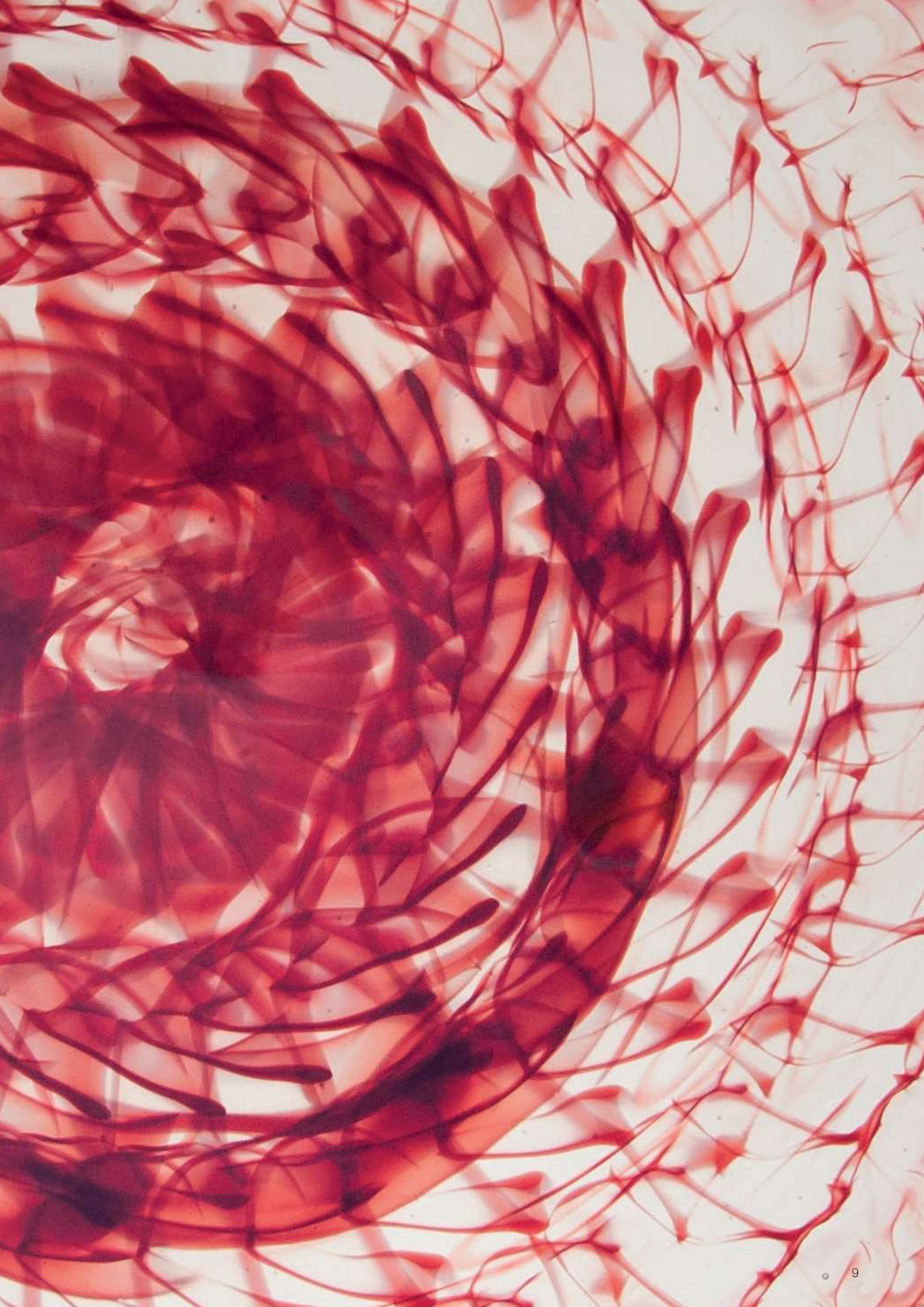
VENICE LEGEND

The venetian art of glassmaking is considered legendary to this day. Pioneers of this craft, like the world famous company Ferro from Murano, have been keeping this tradition carefully over many generations and share their know-how advisedly selected. The cooperation of the old master Guido Ferro and RZB unite the venetian art of glassmaking and the high standards in design and technology of RZB; it is cross-border appreciation and synergy at the same time. The result is a liaison between glass and light that definitely can be regarded as epic work.

More than 700 years of craftsmanship, tradition and passion "a la Ferro" make each of the hand-blown glass panels a touchingly beautiful individual item. Each millimetre of this "levitating" circle is steeped in light; the seamless, almost playful colouring of the Murano glass is brought to life in a fascinating way. Great designing skills, construction expertise that has been perfected over decades and pathbreaking LED technology were required to create such even light control and luminance. Through this, the quality and substance of RZB LUMINAIRES FerroMurano are rationally explained - but not its almost magic aesthetics. It remains a secret.

Each legend lives through one...





RING OF FIRE®

Technology



Ring made of
anodised aluminium or gold

Versions with smart+free
Bluetooth control for wireless
network and operation using
Android / iOS devices



Steel cable suspension, step-
lessly adjustable

Power supply through suspension cable
(on/off and DALI) or through separate
cable (smart+free)



Tunable white versions dynamically
adjustable from 2700 K to 6500 K



Mouth-blown opal glass,
satin finish.



HANDMADE MASTERPIECE

⊕ Mouth-blown opal glass

The ring is made of mouth-blown three-layer glass comprising a layer of opal glass sandwiched between layers of transparent glass. This structure protects the fragile opal glass from breakage.

⊕ Glass mass

The glassblower then forms the gob (the 16 kg heavy molten glass) by blowing into the blowpipe and rotating it, to prevent solidification of the molten glass. This element is then blown further in a special ring mould.

⊕ Perceived value

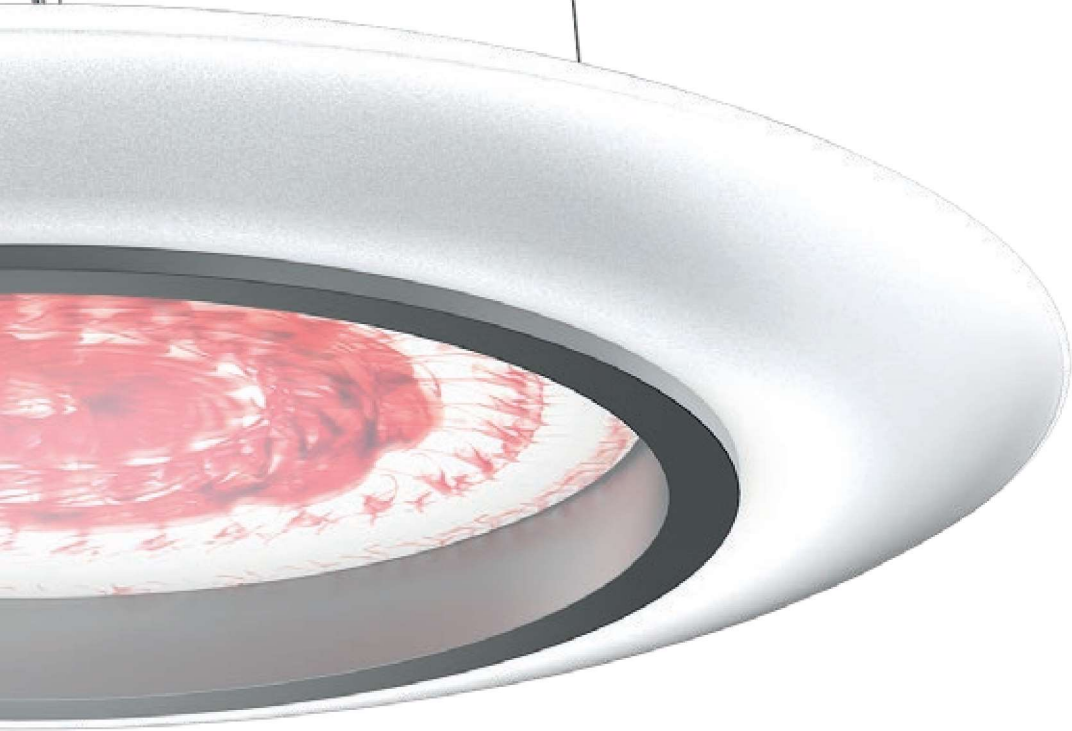
The ring is then finished in an etching bath, which deposits a matt surface on the outer transparent-glass layer. This underscores the magnificent quality of the light produced by Ring of Fire luminaires.

⊕ Unique

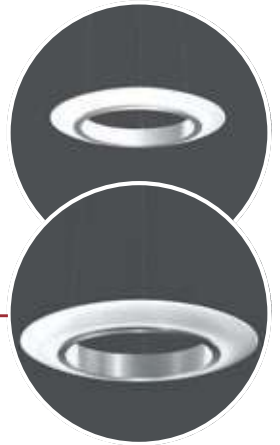
The minute air inlets here and there in the glass are a very special feature of RZB's Ring of Fire luminaires, attesting as they do to the individual, handcrafted quality of these products. These various steps ensure that each RING OF FIRE luminaire is a unique, mouth-blown glass object.

RING OF FIRE®

Everything at a glance



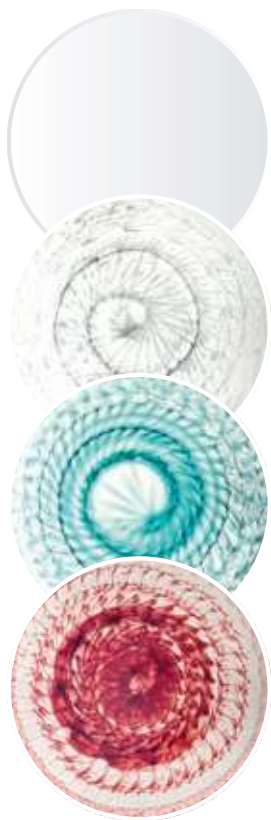
Two glass forms



Two frame sizes
(elliptical glass)



Two colour options available
(only for pendant luminaires):
aluminium, anodised or gold



Opal glass plate

Three different FerroMurano
insertion plates



PHOTOMETRICS

- ⊕ Luminaire flux up to 5,500 lm
- ⊕ Colour rendering index Ra > 80
- ⊕ Colour temperature 3,000 K and 4,000 K
- ⊕ Tunable white versions dynamically adjustable from 2700 K to 6500 K
- ⊕ LED rated life 50,000 h (L70, B10)
- ⊕ Good colour consistency within 3-steps MacAdam (3 SDCM)



ZEISS VISION CENTER

DECRAENE KORTRIJK

RING OF FIRE®

Product overview



Applies to versions with ,76

Comparison LED vs. conventional lamps

LED 29 / 30 W ≈

1 x 55 W T16-R (60 W Psys)

LED 38 / 39 W ≈

3 x 26 W TC-D (102 W Psys)
1 x 22 + 40 W T16-R (70 W Psys)

LED 76 W ≈

2 x 55 W T16-R (120 W Psys)



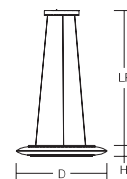
Pendant luminaires | Ring of Fire

Type of Protection: IP 20
Protection Class: I
Impact Protection: IK02
Suspension Length: 500-1200 mm

Supporting ring made of anodised aluminium. Opal glass: mouth-blown, satin finish. Canopy aluminium anodised. For pendant lengths of up to 2 m, power is supplied through a suspension cable. For pendant lengths of 2 m and more, and for all tunable white versions, power must be supplied through a separate cable, 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colours: 4 = aluminium, anodised, 5 = gold

Versions with smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions	Lamp	Light colour	Luminous flux	System power	UGR	dim-able	Price Category 21
Pendant luminaires								
Diameter D 495 mm, canopy Ø 221 mm, h 36 mm								
311669.004.76	D 495, H 55	LED	830	2650 lm	30 W	22,5	DALI	
311669.004.730	D 495, H 55	LED	830	2650 lm	30 W	22,5	smart+free	
311669.004.1.76	D 495, H 55	LED	840	2750 lm	30 W	22,8	DALI	
311669.004.1.730	D 495, H 55	LED	840	2750 lm	30 W	22,8	smart+free	
Tunable White - 2700 K to 6500 K								
311669.004.2.730	D 495, H 55	LED	827-865	2100 lm	29 W	22,0	smart+free	
Diameter D 690 mm, canopy Ø 263 mm, h 40 mm								
311570.004.76	D 690, H 81	LED	830	3800 lm	39 W	22,3	DALI	
311570.004.730	D 690, H 81	LED	830	3800 lm	39 W	22,3	smart+free	
311570.004.1.76	D 690, H 81	LED	840	3900 lm	39 W	22,4	DALI	
311570.004.1.730	D 690, H 81	LED	840	3900 lm	39 W	22,4	smart+free	
311570.005 *	D 690, H 81	LED	830	3800 lm	39 W	19,0	on/off	
311570.005.76 *	D 690, H 81	LED	830	3800 lm	39 W	22,3	DALI	
312546.004.76	D 690, H 81	LED	830	5250 lm	76 W	23,2	DALI	
312546.004.730	D 690, H 81	LED	830	5250 lm	76 W	23,2	smart+free	
312546.004.1.76	D 690, H 81	LED	840	5450 lm	76 W	23,4	DALI	
312546.004.1.730	D 690, H 81	LED	840	5450 lm	76 W	23,4	smart+free	
Tunable White - 2700 K to 6500 K								
311570.004.2.730	D 690, H 81	LED	827-865	3250 lm	38 W	21,8	smart+free	

* Canopy, bezel ring and supporting ring 24 carat gold-plated

Replacement glasses	Price Category 13
05-1941.002	D 495, H 48
05-1936.002	D 690, H 75

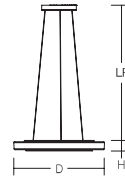
Pendant luminaires | Ring of Fire

Type of Protection: IP 20
 Protection Class: I
 Suspension Length: 500-1200 mm

Supporting ring made of anodised aluminium. Opal glass: mouth-blown, satin finish. Canopy aluminium anodised. For pendant lengths of up to 2 m, power is supplied through a suspension cable. For pendant lengths of 2 m and more, and for all tunable white versions, power must be supplied through a separate cable, 3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 4 = aluminium, anodised

Versions with smart+free Bluetooth® control for wireless network and operation using Android / iOS devices, free app available for download.



Reference number	Dimensions	Lamp	Light colour	Luminous flux	System power	UGR	dimmi-able
Pendant luminaires							
Price Category 21							
Diameter D 495 mm, canopy Ø 221 mm, h 36 mm							
312261.004.76	D 495, H 55	LED	830	2650 lm	30 W	24,0	DALI
312261.004.730	D 495, H 55	LED	830	2650 lm	30 W	24,0	smart+free
312261.004.1.76	D 495, H 55	LED	840	2750 lm	30 W	24,2	DALI
312261.004.1.730	D 495, H 55	LED	840	2750 lm	30 W	24,2	smart+free
Tunable White - 2700 K to 6500 K							
312261.004.2.730	D 495, H 55	LED	827-865	2300 lm	29 W	23,6	smart+free
Replacement glasses							
Price Category 13							
05-2038.002	D 495, H 48						

Applies to versions with .76

Comparison
LED vs. conventional lamps

LED 29 / 30 W ≈
 1 x 55 W T16-R (60 W Psys)



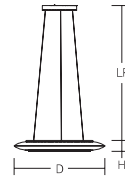
Pendant luminaires | Ring of Fire

Type of Protection: IP 20
 Protection Class: I
 Impact Protection: IK02
 Suspension Length: 500-1200 mm

Supporting ring made of anodised aluminium. Opal glass: mouth-blown, satin finish. Inner circle surface: 417 mm in diameter opal white glass insert, for additional direct light output, which can be controlled separately. Canopy aluminium anodised.

3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 4 = aluminium, anodised



Reference number	Dimensions	Lamp	Light colour	Luminous flux	System power	dimmable	
Pendant luminaires							Price Category 21
Diameter D 690 mm, canopy Ø 263 mm, h 40 mm							
311682.004.76	D 690, H 81	LED	830	5450 lm	63 W	DALI	
311682.004.1.76	D 690, H 81	LED	840	5550 lm	63 W	DALI	
Replacement glasses							Price Category 13
05-1936.002	D 690, H 75						

Comparison LED vs. conventional lamps

LED 63 W ≈
 4 x 21 W T16 (90 W Psys)

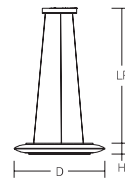
Pendant luminaires | Ring of Fire

Type of Protection: IP 20
 Protection Class: I
 Impact Protection: IK02
 Suspension Length: 500-1200 mm

Supporting ring made of anodised aluminium. Opal glass: mouth-blown, satin finish. Inner circle surface: 417 mm in diameter coloured Murano glass insert, for additional direct light output, which can be controlled separately. Canopy aluminium anodised.

3-point steel cable suspension, steplessly adjustable. Special lengths available on request.

Available colour: 4 = aluminium, anodised



Reference number	Dimensions	Lamp	Light colour	Luminous flux	System power	dimmable	
Pendant luminaires							Price Category 21
Diameter D 690 mm, canopy Ø 263 mm, h 40 mm							
Glass FerroMurano red							
311674.004.76	D 690, H 81	LED	830	4850 lm	63 W	DALI	
311674.004.1.76	D 690, H 81	LED	840	4950 lm	63 W	DALI	
Glass FerroMurano blue							
311675.004.76	D 690, H 81	LED	830	4850 lm	63 W	DALI	
311675.004.1.76	D 690, H 81	LED	840	4950 lm	63 W	DALI	
Glass FerroMurano white							
311691.004.76	D 690, H 81	LED	830	5350 lm	63 W	DALI	
311691.004.1.76	D 690, H 81	LED	840	5450 lm	63 W	DALI	

The luminaire flux of each luminaire varies due to the difference in colour intensity and structure of the glass. Light colour 827 on request.

Reference number	Dimensions						
Replacement glasses							Price Category 13
05-1936.002	D 690, H 75						

Comparison LED vs. conventional lamps

LED 63 W ≈
 4 x 26 W TC-D (136 W Psys)
 1 x 55 W T16-R (60 W Psys)



Further information on coloured FerroMurano glass can be found on page 8.



Wall luminaires | Ring of Fire

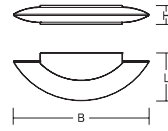
Type of Protection: IP 20

Protection Class: I

Impact Protection: IK02

Base: lacquered die-cast aluminium. Mouth-blown opal glass, satin finish, with transparent glass end caps. Luminaire body fixing with countersunk bolts.

Available colour: 4 = aluminium, anodised



Reference number	Dimensions	Lamp	Light colour	Luminous flux	System power	dim-able
Wall luminaires						
Price Category 21						
Width B 421 mm						
311672.004	L 144, B 421, H 60	LED	830	850 lm	11 W	on/off
311672.004.1	L 144, B 421, H 60	LED	840	890 lm	11 W	on/off
Width B 597 mm						
311673.004	L 210, B 597, H 83	LED	830	1950 lm	22 W	on/off
311673.004.76	L 210, B 597, H 83	LED	830	1950 lm	22 W	DALI
311673.004.1	L 210, B 597, H 83	LED	840	2050 lm	22 W	on/off
311673.004.1.76	L 210, B 597, H 83	LED	840	2050 lm	22 W	DALI

Light colour 827 on request.

Replacement glasses		Price Category 13
05-1941.022	L 423, B 119, H 48	
05-1936.022	L 595, B 175, H 75	

Comparison LED vs. conventional lamps

LED 11 W ≈
2 x 13 W TC-DEL (29 W P_{sys})

LED 22 W ≈
2 x 26 W TC-DEL (56 W P_{sys})



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FURTHER LUMINAIRES, MATCHING THIS SERIES:



⊕ Sidelite® Round FerroMurano



⊕ Scapha®



⊕ Flat Slim



⊕ Triona

HIGHEST PRODUCT AND CONSULTING QUALITY

⊕ RELIABILITY

We are your reliable partner. From the first idea to the implementation and far beyond, we accompany your project. Personal, passionate and individual. Thanks to our excellent expertise, top product quality and services such as lighting design, economic efficiency analysis and commissioning, we meet the high demands of all parties involved in the planning process.

- ✓ availability of BIM files
- ✓ easy and quick installation
- ✓ quality and long warranty

⊕ WARRANTY

RZB grants 5 years warranty on LED luminaires and 2 years warranty on emergency luminaires!

The creation of high quality lighting solutions is our passion. Our products are developed and manufactured with the utmost care.

In addition to SMART TECHNOLOGY and EXCELLENT DESIGN, we are dedicated to manufacture luminaires of highest quality throughout the entire value chain through to After Sales Service.

Because of this, we confidently grant you a 5 years warranty on LED luminaires and 2 years warranty on emergency luminaires with effect of the date of invoice without prior registration of your project.

Warranty terms to be found under

rzb.de/en/service/led-luminaire-warranty

RZB - FOR A TANGIBLE ADDED VALUE.



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