

FABRIQUE DES LUMIÈRES
AMSTERDAM

DESTINATION COSMOS

THE IMMERSIVE SPACE EXPERIENCE

OCTOBER 2023

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DESTINATION COSMOS

THE IMMERSIVE SPACE EXPERIENCE

From the first stargazers to the lunar landing of Apollo 11, man's desire to explore space continues to grow.

“Destination Cosmos: The Immersive Space Experience” transports the public to a maze of stars, planets, nebulae, and supernovae. A unique journey of discovery begins in the middle of the tropical forest and ends in the outer reaches of the universe.

After departing from Earth, visitors are invited to travel over Martian canyons alongside rovers (space exploration vehicles designed to traverse the surface of a planet or other celestial body), dive into the heart of Jupiter, glide across the rings of Saturn, and explore beyond the frontiers of our solar system to experience the immensity of our universe.

Fully mesmerized by the images and music of “Destination Cosmos”, the audience embarks on an unprecedented space adventure, thanks to stunning images from CNES and NASA.

Conception and video animation

 **SPECTRELab**

Musical collaboration

 **START-REC**
LE SON POINTU

« DESTINATION COSMOS, THE IMMERSIVE SPACE EXPERIENCE »

Composed of 13 sequences and a prologue, the digital exhibition features striking images from CNES and NASA:

Prologue

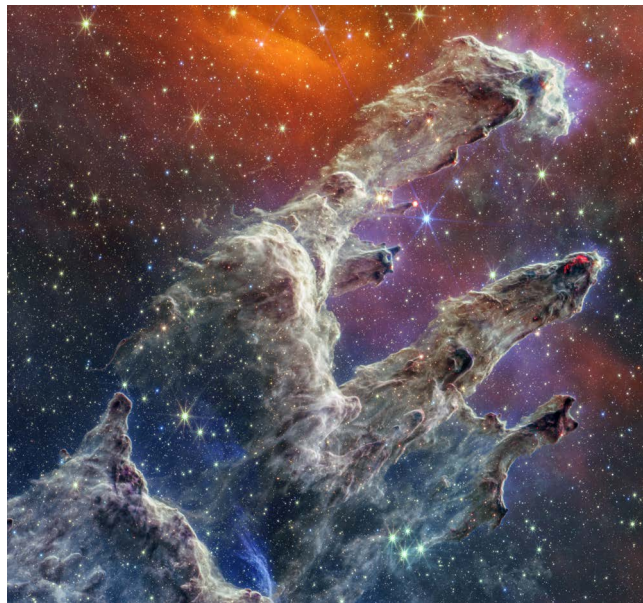
The Ancient Human Dream of Space Exploration

« Destination Cosmos » begins in darkness. Fabrique des Lumières is filled with a starry sky and lines plot the constellations. From these lines, emerge mythological creatures after which are named.

A succession of ancient sites follows, built by civilizations that were pioneers in astronomy. The show continues with illustrations highlighting the studies of the stars made by various people in various epochs.

The Space Race: Destination Moon

The race to space in general, and the moon in particular was intertwined with political issues and considerable excitement, only half a century ago between the USA and the USSR. The viewer is immersed in archived images that have become iconic.



The Pillars of Creation is a small region within the vast Eagle Nebula, which lies 6,500 light-years away. (NIRCam and MIRI Composite Image); Credits: SCIENCE: NASA, ESA, CSA, STScI

Part I - The Earth

Kourou, the gateway to stars

In the middle of the tropical forest, visitors are led through the various infrastructures of the Kourou space base. At the heart of a launch pad (the platform from which a rocket is launched), the countdown begins, propelling us in a cloud of smoke and an intense roar towards the stars!

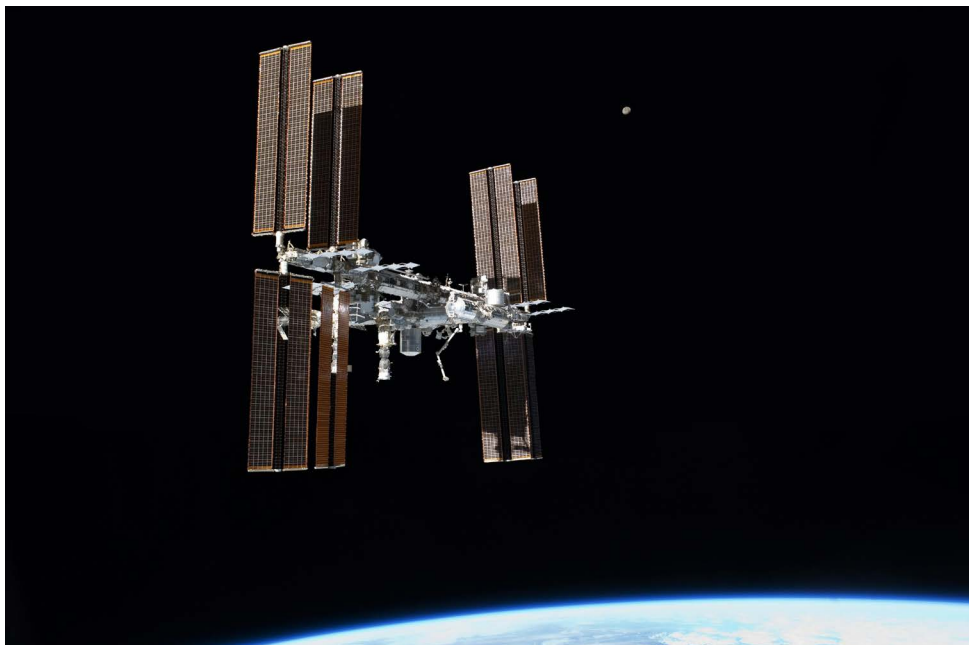
Stars, but also Jupiter : the ESA latest mission, the Jupiter Icy Moon Explorer (JUICE) was launched on 14 April 2023 from French Guiana. JUICE will spend years exploring the gas giant Jupiter and pay particular attention to its three large ocean-bearing moons Ganymede, Callisto, and Europa.

The Earth - Our Home

The curvature of the Earth emerges, followed by a succession of images of the blue planet seen from space, shows the planet in all its diversity. This sequence of the exhibition reminds us that satellite imagery enables us to gain a better understanding of the climatic phenomena affecting the Earth.

A Joint project: The ISS

This sequence of the exhibition focuses on the technological challenge of the International Space Station - a laboratory in orbit, in which spacemen, astronauts, and cosmonauts collaborate to drive science forward.



The International Space Station (ISS), May 23, 2011 © ESA/NASA, CC BY-SA 3.0 IGO

Part II - The Solar System

Helios

Magnificent images of solar flares spread over the huge walls of Fabrique des Lumières. Visitors are engulfed by an impression of extreme heat. The dance of the planets around the sun begins and shows the position of each planet in the solar system.

Mars, The Red Planet

Mars is initially observed from its orbit. It is only as one penetrates its atmosphere and approaches its surface that one discovers the range of colors that exist on the planet, in its canyons, craters, mountains, and reliefs. The focus is on the probes, robots, and rovers—the first explorers of the red planet.

Tchouri: the New Rosetta Stone

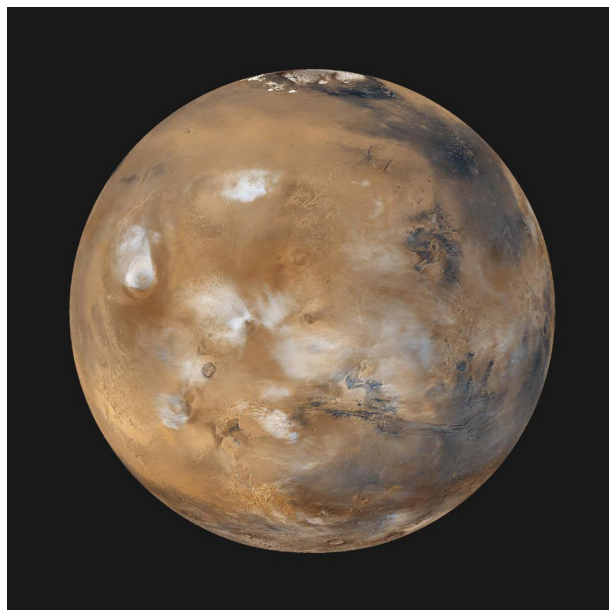
Like a monolith, the Rosetta Stone stands then disappears, giving way to comet 67P/Churyumov–Gerasimenko. Embark on the Rosetta space mission to try and decode the origins of life on Earth, in a mysterious ambiance.

Gas Giants

Journey towards the two largest planets in the solar system: Jupiter and its colorful bands and the immensity of Saturn's rings.

The Outermost Boundaries of our Solar System

After flying over Uranus, Neptune, and mysterious trans-Neptunian objects, the adventure continues as we leave the solar system with the Voyager Probe...



Mars Daily Global Image from April 1999 © NASA/JPL/MSSS

Part III – Outer space

Seeing into the Past

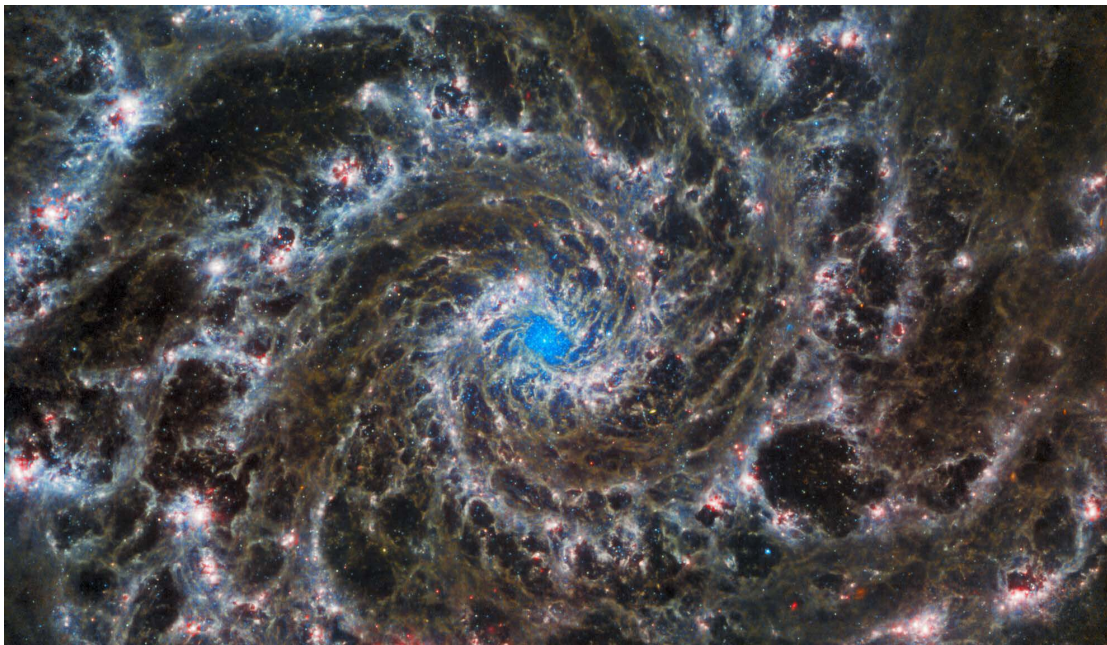
The Gaia, Planck, and Herschel space observatories - launched by NASA and the ESA between May 2009 and December 2013 - scan and map out the sky. In an almost mystical-atmosphere, the most captivating images of the Universe are shown, providing the viewer with a ballet of stars, nebulae, and supernovae. Some of these images have been captured by the Hubble Space telescope, launched by NASA on April 24th, 1990.

The Milky Way: One of Many Galaxies

The space probes zoom out until the entire Milky Way is visible. The focus continues in a cluster of galaxies until the Milky Way becomes only a luminous point. The extraordinary images are taken by the James Webb telescope, which operates at 1.5 million kilometers from earth and was launched by NASA in 2021.

A Speck of Dust

The Milky Way disappears and plunges the venue into darkness. When the image reappears, like an invitation to embark on a voyage, the viewers find themselves looking at a spaceman with Earth in the background - marking the end of the journey, making their way back home.



James Webb Space Telescope shows the heart of M74, otherwise known as the Phantom Galaxy.. © ESA/Webb, NASA & CSA, J. Lee and the PHANGS-JWST Team - Acknowledgement: J. Schmidt

SOUNDTRACK TO « DESTINATION COSMOS »

Das Rheingold (Overture) by Wagner

Gimme Shelter by The Rolling Stones

Pardonnez-nous de vivre by Marek Hunhap

New World Symphony (Extract) by Antonin Dvorak, played by the Budapest Philharmonic Orchestra, conducted by Zoltan Kovats

Living Fantasy by Clark

Solidarity Theme (Release) by James Holden

Requiem in D Minor - III. Sequenz: Rex Tremendae by Mozart, played by the Atlanta Opera Orchestra and Chorus and conducted by William Fred Scott

Life on Mars by David Bowie

Iron by Woodkid

The Way (Instrumental) by Zack Hemsey

Voyage to Avalon by Kenji Kawai performed by Moon Hee Joon

Who Will Save Us Now by David Chappell

COLLABORATION - PARTNERSHIP

From the multiple Apollo missions to the Moon, to International Space Station and the pioneering exploration of Mars and beyond, visitors will be able to appreciate - from a new perspective - the beauty of the Earth, scientific and technical achievements, past and future space challenges, and confront the mysteries of our fascinating universe.

For more information about NASA, visit: <https://www.nasa.gov>

The CNES, in brief

The National Center for Space Studies (CNES) is the French space agency and technical center that plays a role in the French government's space policy and helps implement it. It prepares for the future and develops the space ecosystem.

Created in 1961, the CNES is behind major space projects, launchers, and satellites; it is the industry's natural interlocutor in supporting it in exportation and promoting innovation. The CNES has infinite fields of application, divided into five axes: today and tomorrow's European launchers, the convergences between space and digital, innovation, defense, and science. The CNES is a major player in technological research, economic development, and industrial policy in France. It also forms scientific partnerships and is involved in numerous international collaborations.

Culturespaces, creator of Fabrique des Lumières

Culturespaces, which was founded by Bruno Monnier in 1990, is the leading private operator specialising in full-service management of monuments, museums and art centres. Since 2012, the firm has also trailblazed the creation of digital art centres and immersive exhibitions. Culturespaces enjoys a global presence underpinned by comprehensive expertise, combining the design and creation of digital art centres with technological proficiency and a veritable flair for presenting classical, modern and contemporary artists.

‘DES LUMIÈRES’ network by Culturespaces:

- Carrières des Lumières, Baux-de-Provence (since 2012)
- Atelier des Lumières, Paris (since 2018)
- Bunker des Lumières, Jeju (since 2018)
- Bassins des Lumières, Bordeaux (since 2020)
- Fabrique des Lumières, Amsterdam (since 2022)
- Théâtre des Lumières, Seoul (since 2022)
- Hall des Lumières, New York (since 2022)
- Phoenix des Lumières, Dortmund (since 2023)
- Port des Lumières, Hambourg (opening in 2024)

Fully aware of the importance of preserving the world’s artistic and cultural heritage for future generations, Culturespaces also helps fund annual restoration programmes targeting the monuments and collections it manages.

The Culturespaces Foundation, meanwhile, was founded by Bruno Monnier in 2009 to foster access to art and culture for disadvantaged children affected by illness, disability or poverty. One of France’s benchmark foundations, it implements bespoke cultural initiatives, blending culture, education and solidarity.

www.culturespaces.com



Bruno Monnier, President and founder of Culturespaces



© Culturespaces / Sofiacome

30 years at the service of historic monuments, museums, and traditional and digital exhibitions. Founder of digital art centers.

Bruno Monnier graduated from the Paris Institute of Political Studies (Sciences-Po), the Université Paris II Assas, and the HEC's MBA program, and, fascinated by the history of art, he joined the French Ministry of Culture in 1986, where he was responsible for the modernization of the management of museums and monuments (the 'Patrimoine 2000' commission) and the reorganization of the Château of Versailles. In 1988, he left the Ministry of Culture and founded the company

Culturespaces, inspired by the Anglo-Saxon model in which most of the historic monuments and museums are managed by private organizations. Culturespaces initially advised local authorities, private owners, and State establishments on how to promote and manage their monuments and museums.

In 1992, the Académie des Beaux-Arts entrusted him with the entire management of the Villa Ephrussi de Rothschild in Saint-Jean-Cap-Ferrat, whose gardens he restored. In 1996, the Institut de France entrusted him with the management of the Musée Jacquemart-André and its exhibitions in Paris. Local authorities subsequently outsourced public services and entrusted him with the management of historic monuments, museums, and exhibitions. He now manages fourteen venues, employs 450 people, manages major temporary exhibitions, and organizes live shows and concerts.

In 2009, Bruno Monnier created the Culturespaces Foundation, which now operates under the aegis of the Fondation Agir Contre l'Exclusion. The Foundation promotes access to the arts and cultural heritage, and fights against the cultural exclusion of children who are sick, handicapped, or suffering from poverty and social exclusion. Every year, the Culturespaces Foundation welcomes more than 10,000 children in the venues managed by Culturespaces.

In 2012, Bruno Monnier opened a Culturespaces venue, the Carrières des Lumières in Les Baux-de-Provence, which has become the most visited cultural venue in the region.

In 2013, he created a new cultural venue in Aix-en-Provence: the Hôtel de Caumont. After exemplary restoration work and the creation of new gardens, he turned it into an art center that organizes highly acclaimed temporary exhibitions.

In 2015, Culturespaces conceived the museum of the twenty-first century, by using digital technology to combine images of works of art and music. He decided to create the Atelier des Lumières, his first digital art center, in a former foundry in the 11th arrondissement of Paris. Inaugurated in 2018, the Atelier des Lumières attracted more than a million visitors in the first year. Subsequently, in 2020, he created the Bassins des Lumières in Bordeaux's former submarine base; it is the largest immersive digital art center in the world. The development of art centers continued abroad with the opening of the Bunker des Lumières on the Island of Jeju in 2018 (South Korea), and the Infinity des Lumières in Dubai, in 2021. In 2022, three new digital art centers were opened in Amsterdam, New York, and Seoul. The latest art center opened in Dortmund (Germany), in 2023.

Fabrique des Lumières: facts and figures

Created by Culturespaces, Fabrique des Lumières is a digital art centre located in Amsterdam's Zuiveringshal and features state-of-the-art digital immersive exhibitions with major historic artworks displayed in a unique setting. Visitors can enjoy a high-quality visual and audio art experience that is adapted to the 19th century historic building Fabrique des Lumières is located in. The immersive exhibitions are projected onto all surfaces of the walls and floors making it a full sensory experience.

Largest digital art centre in the Netherlands

- Two exhibition areas: the Hall and the Studio
- Surface area of the Hall: 1,230 m²
- Maximum height of the walls in The Hall: 17 meters
- Surface area of the Studio: 110 m²
- Total exhibition space: 1,350 m²
- Total projection area (including walls and floors): 3,800 m²
- Around 100 video projectors and a spatialised sound system



© Culturespaces / Charles Duprat

Visuals available for the press



Drone shot of the Ariane 6 launchpad © CNES/ESA/Arianespace-ArianespaceGroup/Optique Vidéo CSG/P Piron, 2023



Amsterdam, Netherlands. Photo taken by the Copernicus Sentinel-2B satellite, Credit: contains modified Copernicus Sentinel data (2017), processed by ESA



Rosetta mission poster showing the deployment of the Philae lander to comet 67P/Churyumov-Gerasimenko. © ESA/ATG medialab; Comet image: ESA/Rosetta/Navcam

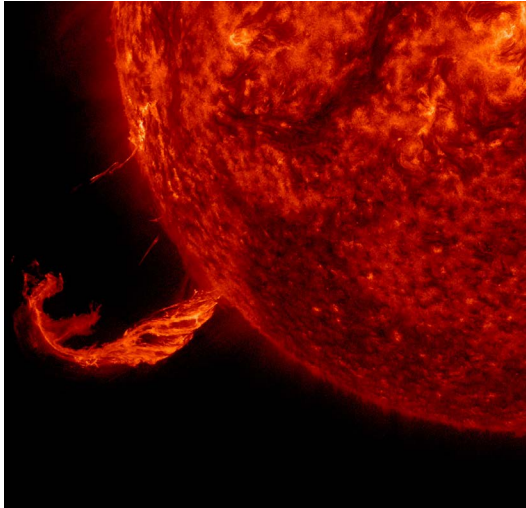


Europe and Italy in the twilight, as seen by ESA astronaut Samantha Cristoforetti aboard the International Space Station, Credit: ESA/NASA-S.Cristoforetti



This mosaic of cloud-free images from the Copernicus Sentinel-3A satellite spans the entire continent of Europe, mapping vegetation and ocean's variations, Credits: contains modified Copernicus Sentinel data (2017), processed by Sinergise/ESA

Visuals available for the press



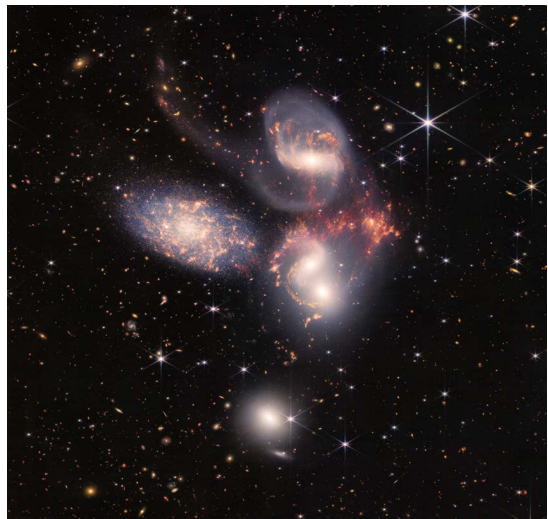
Solar flare, February 2015 © Solar Dynamics Observatory, NASA.



The Pillars of Creation is a small region within the vast Eagle Nebula, which lies 6,500 light-years away. (NIRCam and MIRI Composite Image) © SCIENCE: NASA, ESA, CSA, STScI



2023: NASA's Webb Telescope captures a super-bright, massive Wolf-Rayet star, in a fleeting stage that only some stars go through soon before they explode. Credit: NASA, ESA, CSA, STScI, Webb ERO Production Team

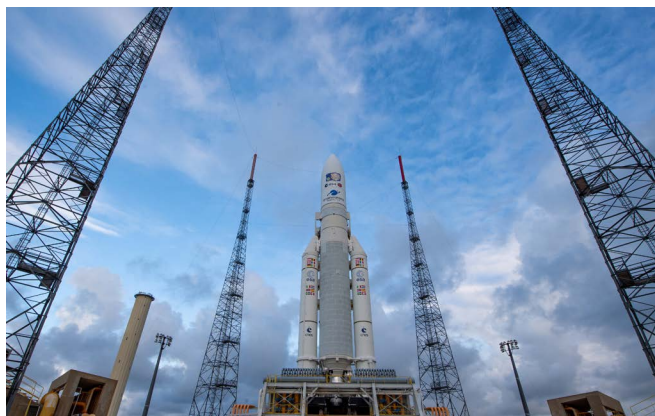


NASA's James Webb telescope: colliding galaxies are pulling and stretching each other in a gravitational dance. © NASA, ESA, CSA, and STScI

Visuals available for the press



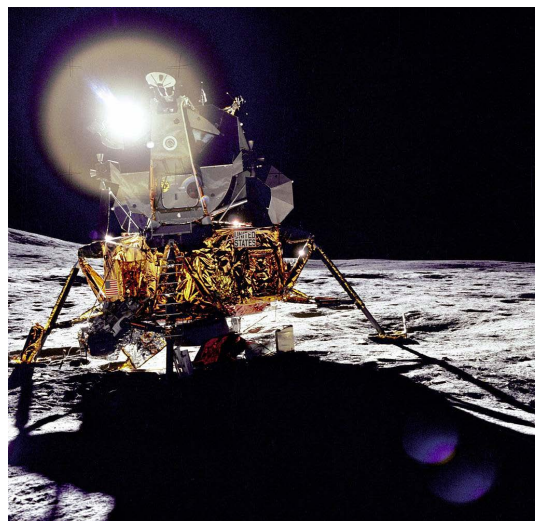
Lift-off of JUICE aboard the Ariane 5 launcher, Kourou, 14 April 2023 © CNES/ESA/Arianespace/Optique Vidéo CSG/JM Guillon, 2023



JUICE aboard Ariane 5 on the launchpad in Kourou © CNES/ESA/Arianespace/Optique Vidéo CSG/S Martin, 2023



Sunrise seen from the International Space Station on November 22, 2009 © NASA



This view of Antares, the Apollo 14 Lunar Module sat on the moon, reflects a circular flare caused by the brilliant sun. Image Credit: NASA

PRACTICAL INFORMATION

Opening hours

Monday to Thursday, 9:30 a.m. to 5 p.m.

Friday and Saturday, 9:30 a.m. to 9 p.m.

Sunday, 9:30 a.m. to 6:00 p.m.

Exhibitions are continuously viewable and there are no fixed viewing times.

Rates

Adults	€ 16
Students, European Youth Pass	€ 13
Youth (5 - 17 years)	€ 12
Children (0 - 4 years)	Free
Families (2 x Adults, 2 x Youth)	€ 48

Tickets

Tickets will be available for purchase from: www.fabrique-lumieres.com.

Access

Pazzanistraat 37, 1014 DB Amsterdam, The Netherlands

Getting there by public transport

Bus 21 from the central railway station, alight at Van Hallstraat/Westergasfabriek.

Tram 3 from the city centre, alight at either Van Limburg Stirumplein or Van Hallstraat/Westergasfabriek.

Getting there by car

From the A10 ring road: take the S103/S104 (Haarlem) exit, then follow signs to the city centre via the Haarlemmerweg.

From Schiphol: take the A4 to Amsterdam (A10 ring road), then take the S103 exit and follow signs to the city centre via the Haarlemmerweg. The venue can be easily accessed by bicycle, and numerous bicycle parking options are available.

Getting there by bicycle

The venue can be easily accessed by bicycle, and numerous bicycle parking options are available.

Web

www.fabrique-lumieres.com.

#FabriquedesLumieres

 www.facebook.com/fabriquedeslumieres

 www.instagram.com/fabriquedeslumieres

 www.linkedin.com/showcase/fabrique-des-lumières

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