



luminariste

# Cymopolée

A tornado of light for public spaces

Technical requirements

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# Specs

## Art infos

### Artwork :

Type : Automated Light art installation  
Durée : 10 minutes loop  
Crowd : All audiences  
Year of creation : 2022

### Equipe

Light design : Benjamin Nesme  
Structure design : Marc Sicard  
Music composition : Camille Rocailleux  
Sound design : François-Xavier Weber  
Technical operator: Tibo Thelleire  
Distribution: Caroline Bernard  
Production : Luminariste

### Co-production :

Patronage : CNR  
Associates : Fêtes des Lumières de Lyon  
Festival Constellations de Metz  
Festival Geneva Lux  
Festival Lumières de St Gervais les Bains

## Technical infos :

### Dimensions :

Height : ±8,7m  
Diameter : 5m

### Weight :

Balasted weight 2 700 kg (exterior install)  
Unballasted weight 1 100 kg (interior install)  
Distributed weight : 130kg/m<sup>2</sup>

### Espace :

Clearance 1m minimum on all sides, 3 meters on top  
Ground 5% maximum slope

### Planning :

Installing : 2 days  
Staffing : 2 artists, 1 technician, 1 stage technician,  
1 distribution manager

### Electricité :

32A tetra On-site, at the emplacement

### Son et effets :

Sound system, 8 speakers + 1 subwoofer - Fog machine

### Aléas climatiques :

Windproof 100km/h  
Waterproof (-20°C + 50°C)

### Materials :

Galvanized steel, Powderpainted Aluminium, Neon flex, electronics, speakers water ballast in steel barrels.

# Cymopolée

Cymopolée is a monumental piece of art.

It is  $\pm 8,50$  meters high, with a 5 meters diameter.

It weighs 2500 kilograms with full water ballast.

Ground occupation is  $\pm 20\text{m}^2$ .

Weight distribution is  $130\text{kg}/\text{m}^2$

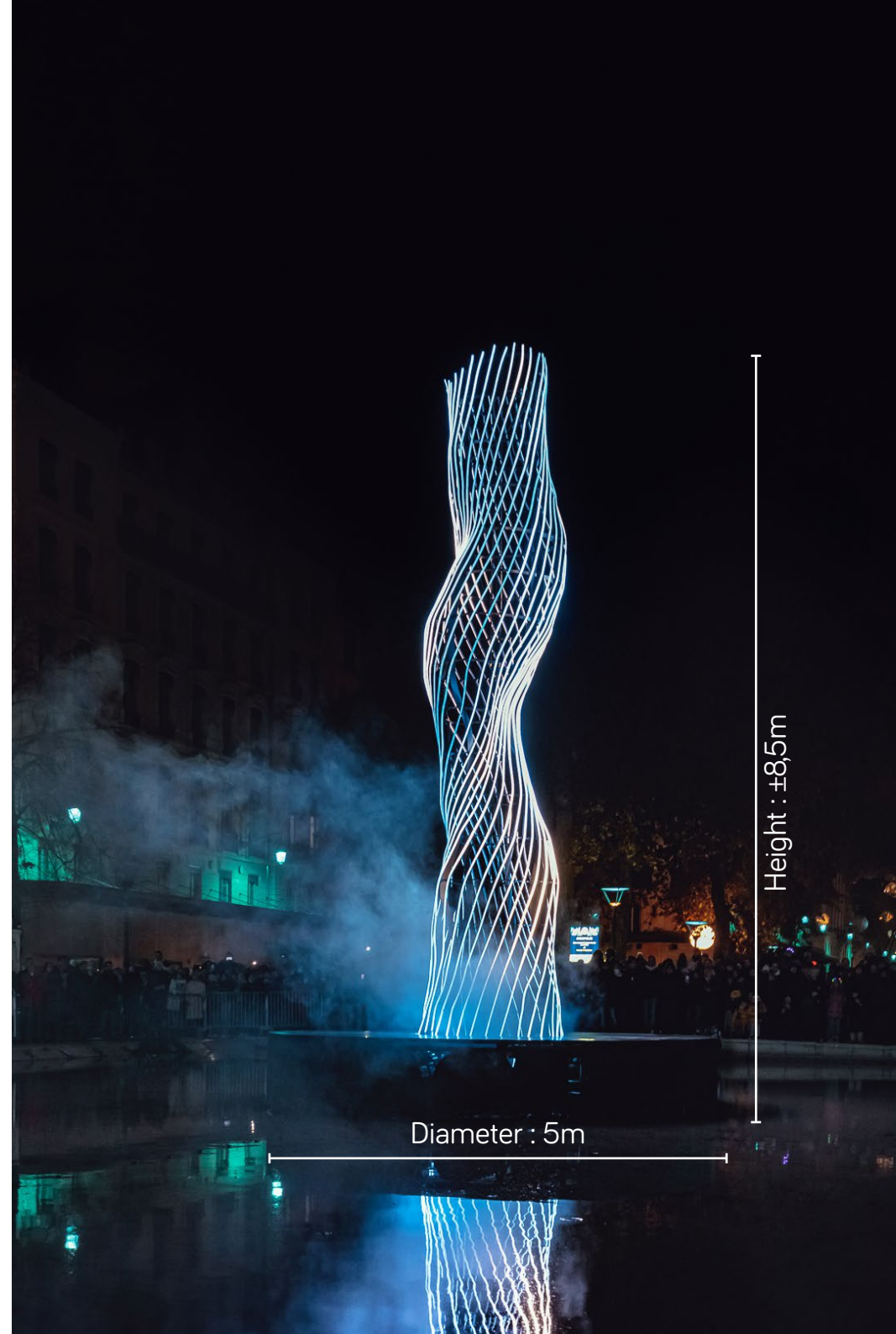
She's waterproof, windproof up to  $100\text{km}/\text{h}$ .

Cymopolée is made of :

- A stand, made of a Layher galvanized steel structure, wrapped in aluminium and steel plates, housing the water ballast in eight barrels. This stand also protect all electric, smoke and sound system.

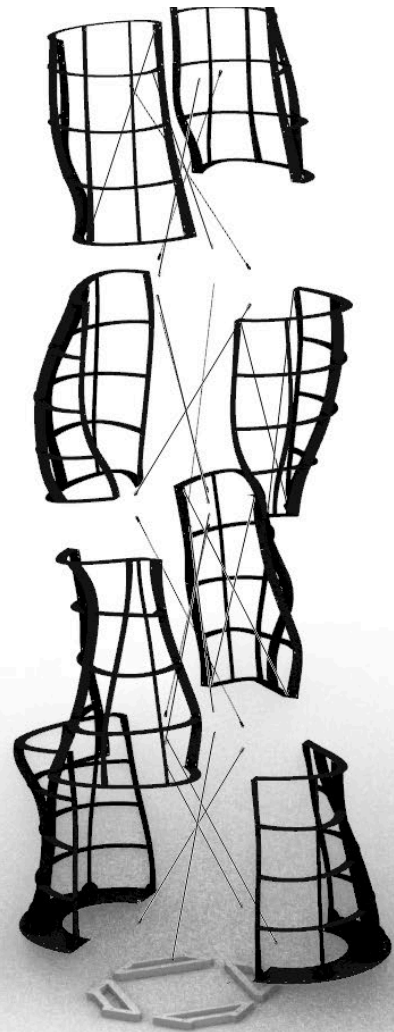
- The twister itself is made of eight elements, in aluminum waffle structure, with steel reinforcements. On this structure, 32 matrixed neonflexes provides the lighting area.

- The whole structure display a light and sound show narrating the passage of a tornado, in a lyrical music piece synchronized with lights, in a 10mn loop.



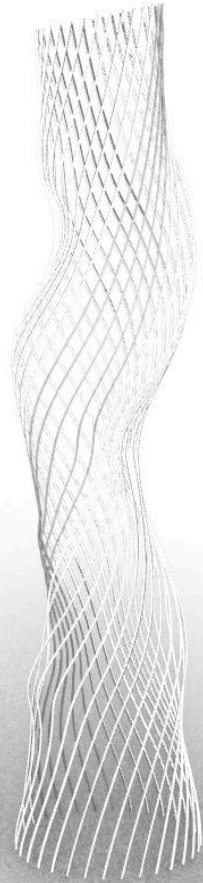


# Cymopolée parts

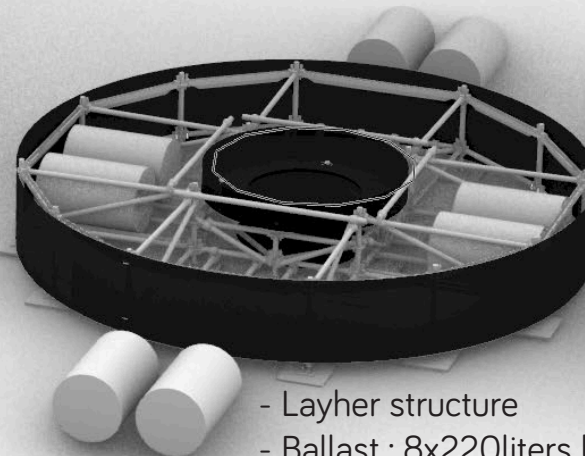
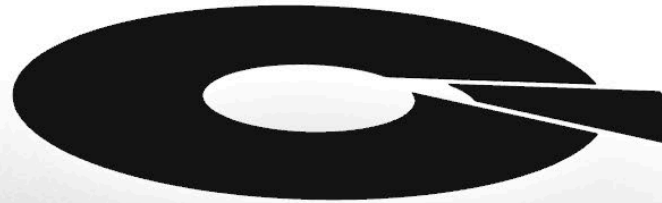


- Metallic structure :
- 8 bolted half-shells
  - 16 reinforcement steel rods
  - 4 bolted spacers

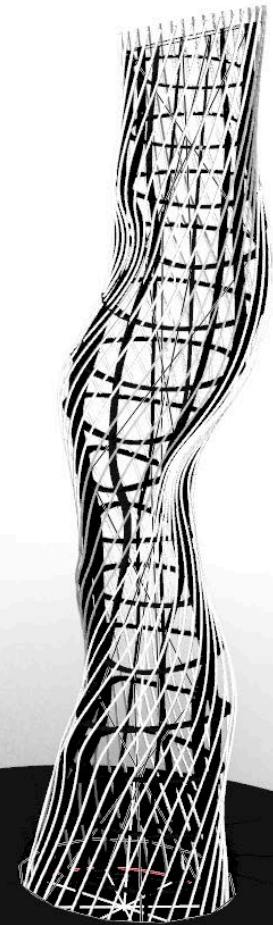
32 matrixed LED neonflex



aluminium cover



- Layher structure
- Ballast : 8x220liters barrels
- steel skirts



# Set up

As a massive structure, Cymopolée means that some constraints apply for a public space installation.

**Dimensions :** Once installed, Cymopolée weighs about 2500 kg, with a 5m diameter stand, and a top height of around 8.5m depending on the ground slope.

Cymopolée needs a stable ground, with at least 150kg/m<sup>2</sup> of weight tolerance.

It needs at least a one-meter clearance space around, on at least 3/4 of the perimeter. Vertical clearance is at least 3 meters.

**Ground slope :** maximum angle : 5°. More than that needs a technical survey.

**Wind.** Cymopolée is windproofed up to 100km/h, once assembled. The assembly itself cannot be made with winds over 50km/h.

**Lift :** We provide a lifting tower for Cymopolée. If this solution is not suitable, we can use any crane with 9 meters clearance, 500kg capacity with 5 meters offset minimum, when operating directly at the stand.

More than that needs a technical survey.

**Water :** Water volume needed is >1.6 m<sup>3</sup>, with a water access/exit nearby.





# Planning

## Location :

We work together to find the best place for Cymopolée, in accordance with the festival art direction, and technical constraints.

A prework might be done through Googlemaps.

If needed, we can schedule a visit on-site, at least two month before the show.

## Team arrival : D - 2

20m<sup>3</sup> truck + van with trailer, secured parking on-site needed.

4/5 workers and artists.

## Assembly

D - 2 : 3 half-days (stand assembly, tornado assembly, electric connexions light and sound testing, programmation)

D-1 : Last rehearsal : verification, instruction transmission to technical operator.

## Show

Cymopolée is on automatic play. Operator needed for first and last play everyday, and security fencing for the night.

Security needed day and night.

## Dismantling

2 half-days, the day after the show's end.



# Requirements

## Electricity

Electric plug P17 32A tetra, direct access on-site, waterproofed, with protection channels if necessary.

## Ballast :

Access to water point for  $\pm 2m^3$  (pump/faucet access plus exit).

If a hose is provided, max diameter should be 22mm.

In case of a high risk of freezing cold, barrels can be replaced by concrete slabs or sandbags, minimum 1600kgs, delivered on site.

## Security

If Cymopolée is installed on public space, security including fences is compulsory from assembly to dismantling.

## Parking & access

Secured parking needed for the two vans and trailer.

Direct access to the area for the vehicles.

## Storage

From assembly to dismantling , storage (2mx2mx4m) needed.

## Staff

1 technician for assembly (2 half-days) and dismantling (6 hours)

1 stage operator during the show (daily start, daily stop, maintenance)





**Website :** [www.luminariste.com](http://www.luminariste.com)

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