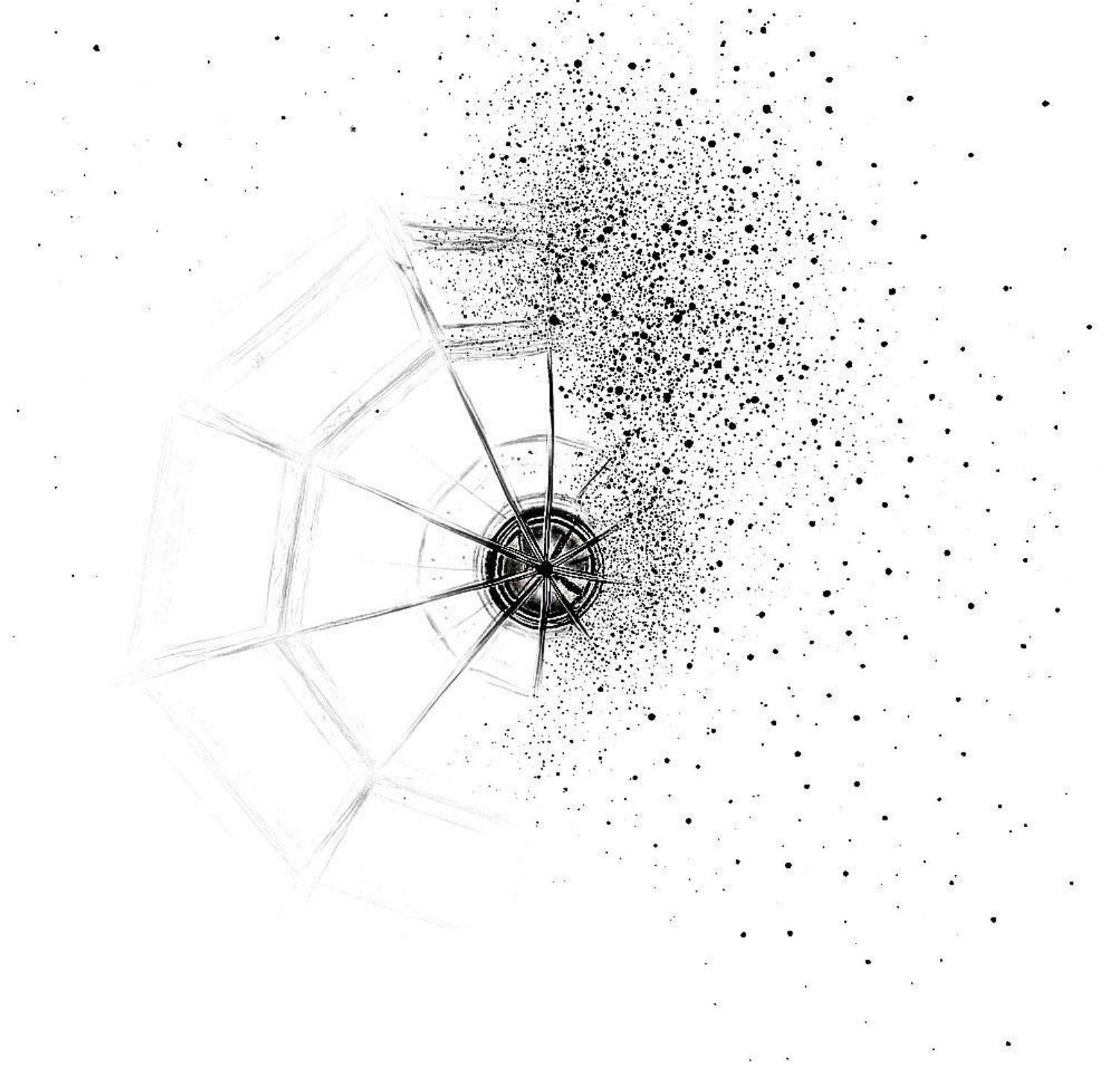


KINETISM

Movement made light

LIGHTING PROJECT- SAN ANTONI MARKET

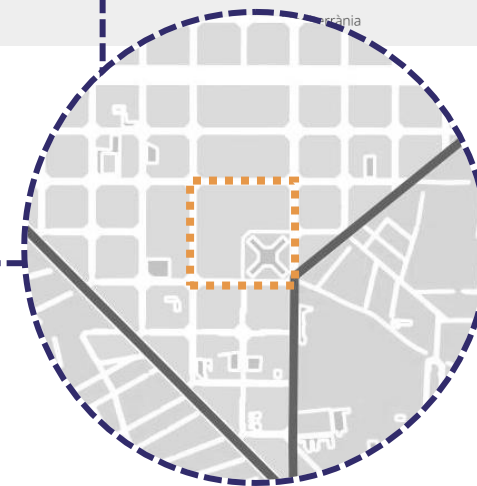
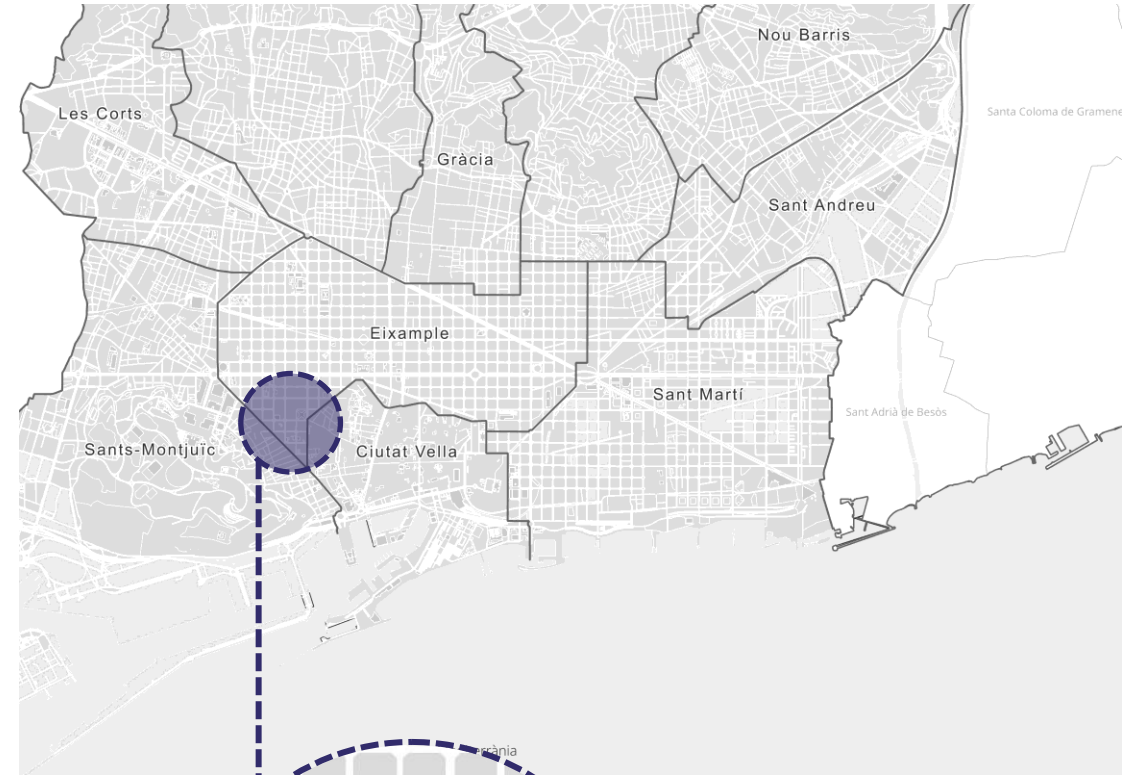
YURANY DAZA ARISTIZABAL | GABRIELA RAMIREZ FARIAS
MASTER LIGHTING DESIGN – UPC 2024/2025



LOCATION AND RELEVANCE

MERCAT DE SANT ANTONI

- Is one of Barcelona's oldest and most iconic markets.
- Recently renovated daily
- Commercial activity with a strong social and neighborhood character
- Surrounded by the Superilla de Sant Antoni



MACRO SCALE - CITY

SANT ANOTNI MARKET - IMMEDIATE SURROUNDINGS

URBAN CONNECTIONS

- 1 RONDA DE SAN ANTON ➡ RHYTHM, transition brand to the market
- 2 AVINGUDA DE MISTRAL ➡ LINEARIT, narrative of directionality
- 3 CARRER DEL COMTE D'URGEL ➡ SUPPORT, daily life, residential commerce
- 4 CARRER DE SANT ANTONI ABAL ➡ CONTINUITY, market network, signaling of heritage ties



URBAN LANDMARKS

- 1 MACBA
- 2 BOQUERIA MARKET
- 3 COLON MONUMENT
- 4 MONTJUIC



NEIGHBORHOOD SCALE - SANT ANTONI

RELATIONSHIP WITH THE NEIGHBORHOOD, BUSINESSES, PEDESTRIANS.

SURROUNDING CIRCULATION

- 1 Pedestrian paths connected to the surrounding area



- 2 Pedestrian routes related to the city / Raval

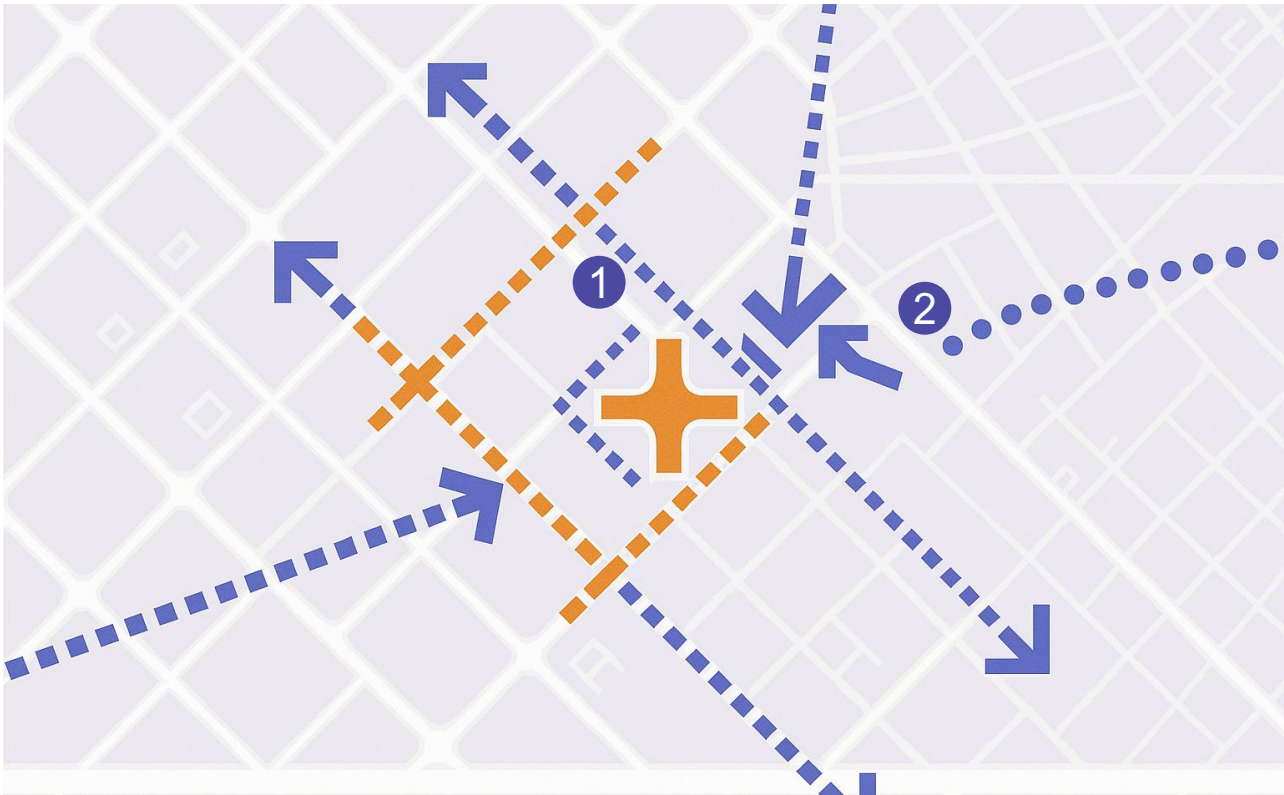


PLAZA IN THE AREA

- 1 Direct access to the main building



- 2 Places related to the market

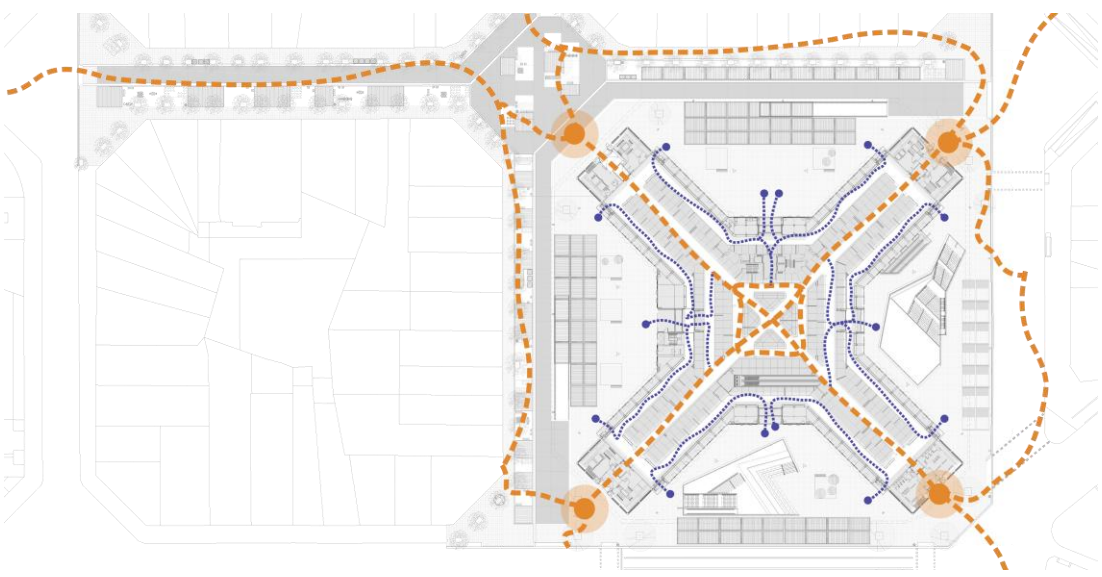
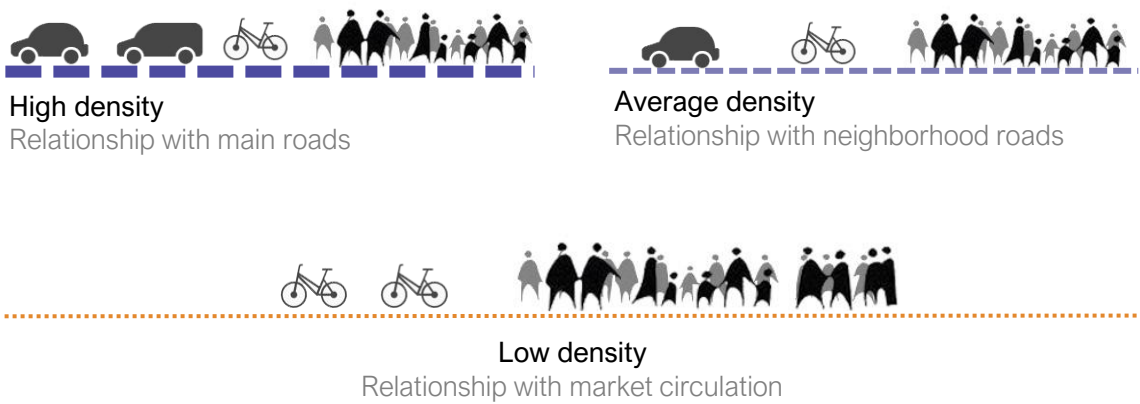


NEIGHBORHOOD SCALE - SANT ANTONI

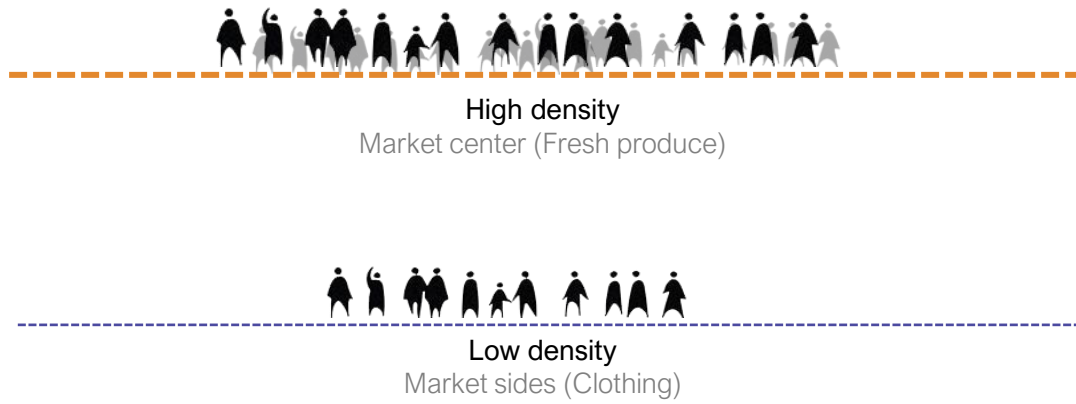
RELATIONSHIP WITH THE NEIGHBORHOOD, BUSINESSES, PEDESTRIANS.



OUTDOOR CIRCULATION

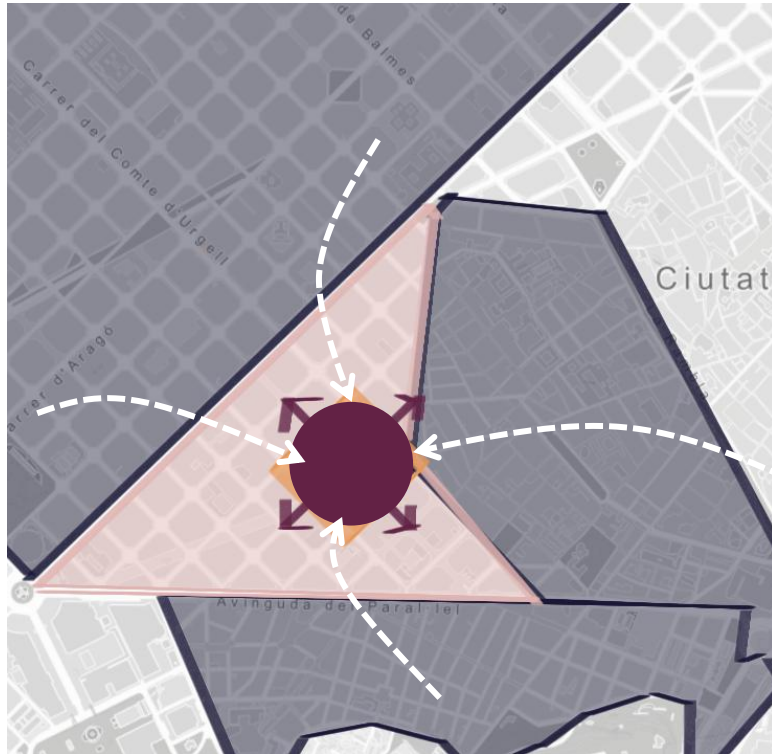


INTERIOR CIRCULATION



CONCLUSIONS

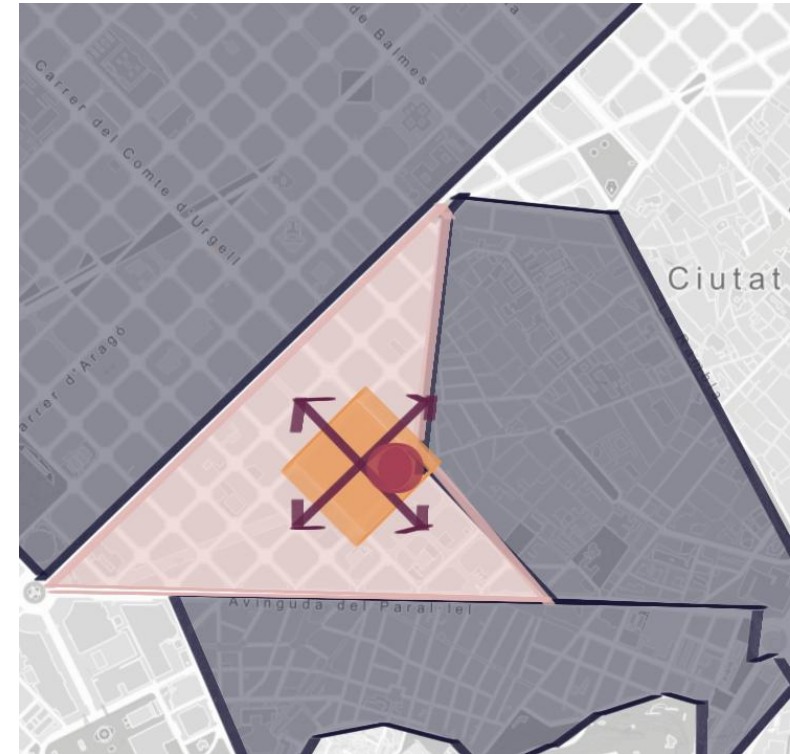
The market feels isolated and needs to be reconnected .



ATTRACT



People and city movement



PROJECT



Movement and commercial/ social exchange

DESIGN INTENTIONS

Create a light structure based on the user experience at the pedestrian level, to achieve

Sequence and rhythm



From urban space to the market and from the market to urban space

Interactivity



Light changes with time or events

Legibility



Clear paths, visible entrances, visual hierarchy by areas

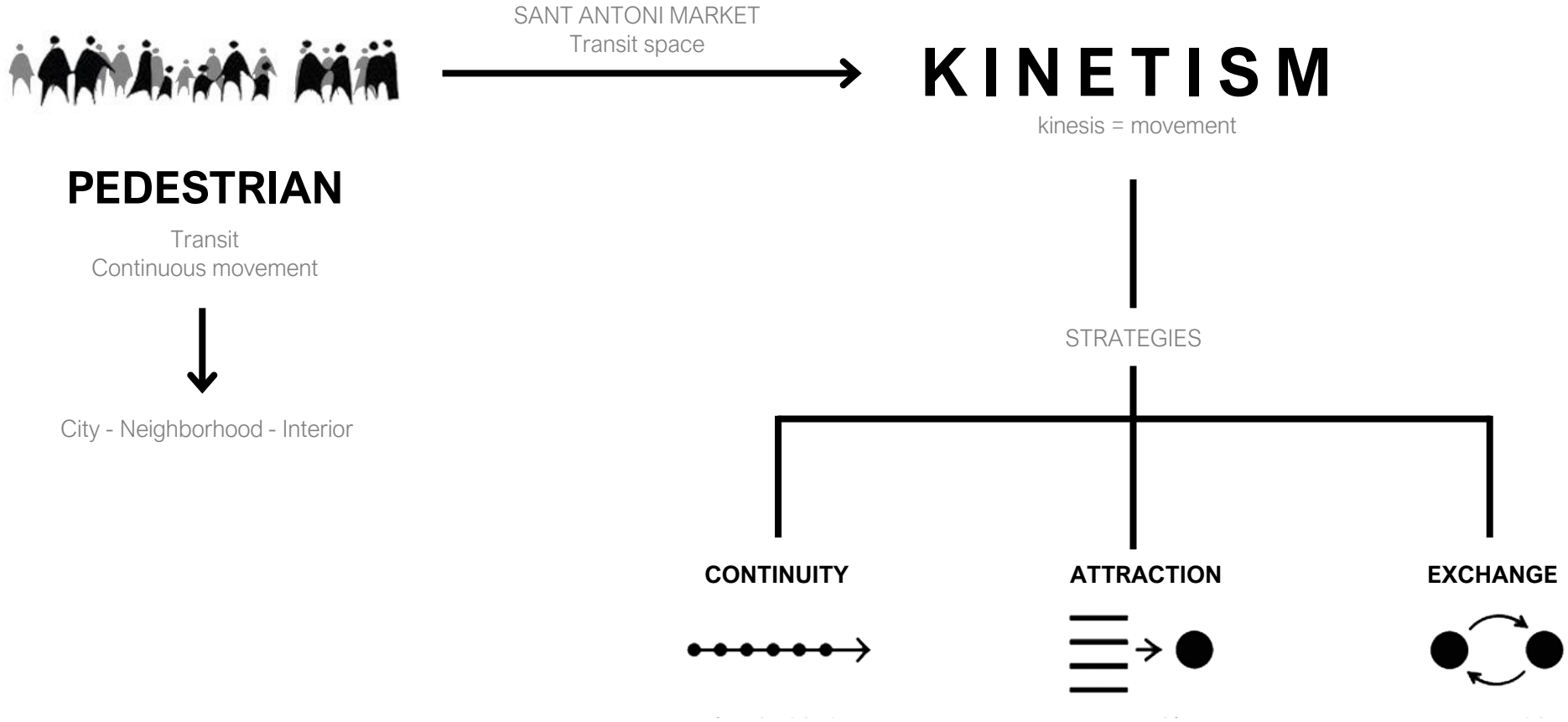
Permanence



Places that invite you to stay

MACRO SCALE - CITY

SANT ANOTNI MARKET - IMMEDIATE SURROUNDINGS

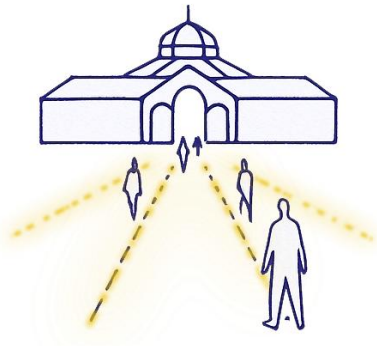


CONTINUITY

Rhythm and movement

LIGHTING EFFECTS

Reflective elements - General lighting



ATTRACTION

Invitation to visit

LIGHTING EFFECTS

Gradient - Sculptural - Dynamic

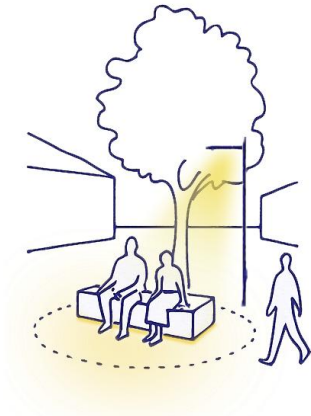


EXCHANGE

Change of activities

LIGHTING EFFECTS

Street furniture - Facade shop



ACTIVE DAY AND NIGHT

During the day

its intervention is revealed through the dialogue with natural light

While at night

it transforms through the activation of artificial lighting

MARKET FRAGMENTATION

Fragment the market to bring it closer to the pedestrian level

01 San Antoni Market

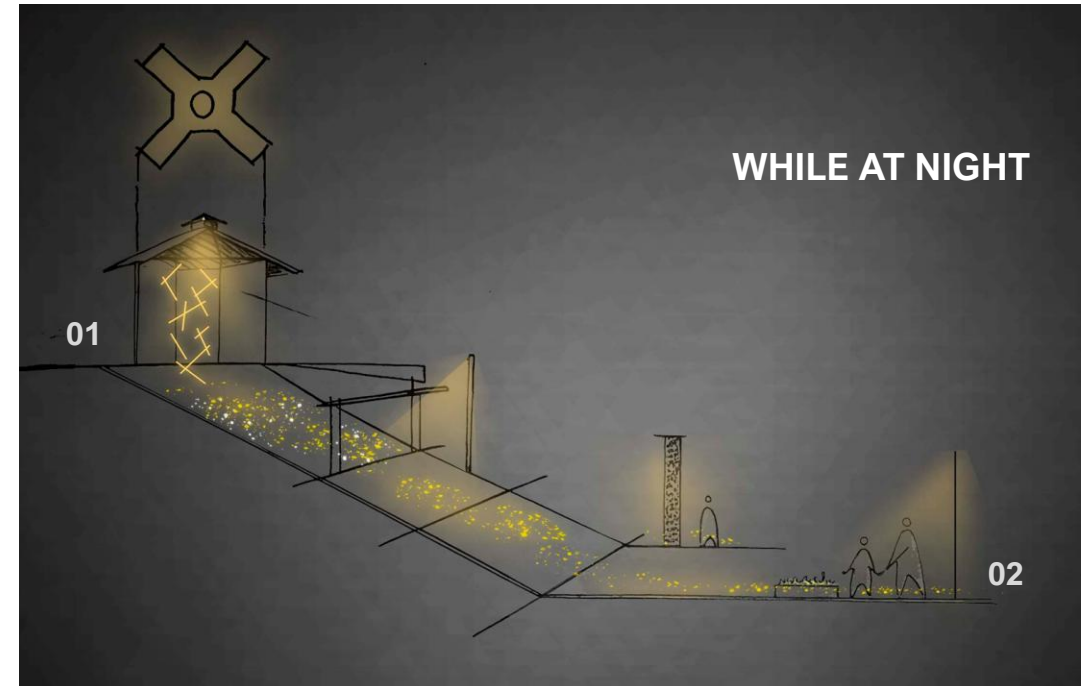
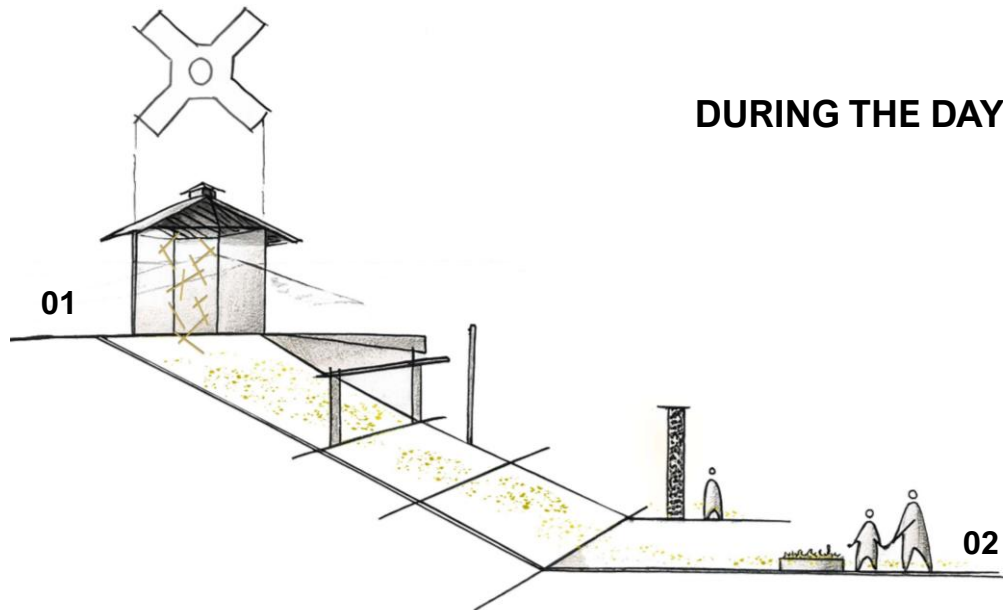
Monumental scale

02 Pedestrian

User scale

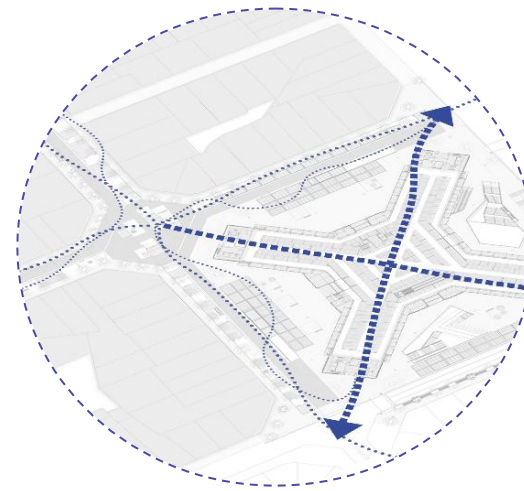
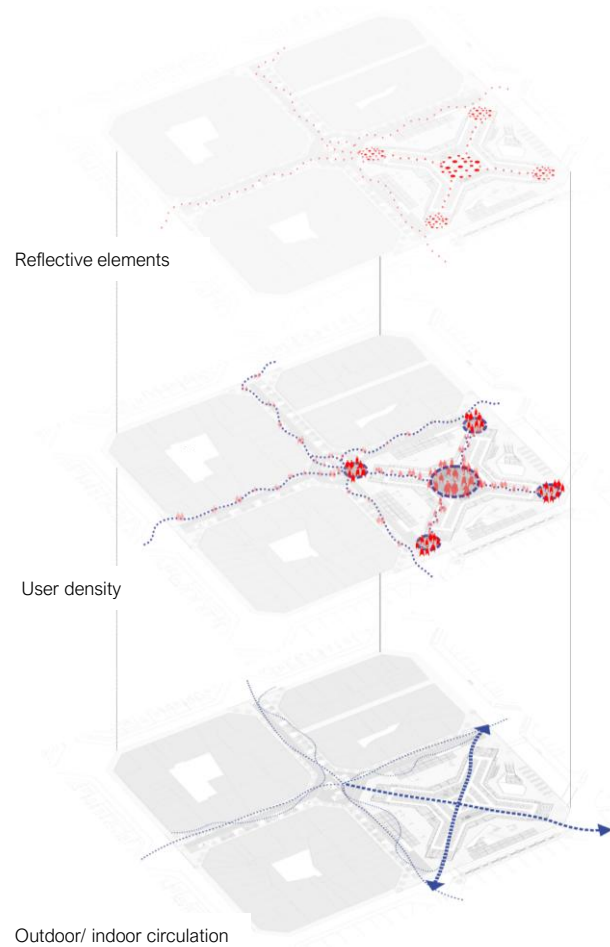
REFLECTIVE ELEMENTS

symbolize the dissolution of monumental architecture

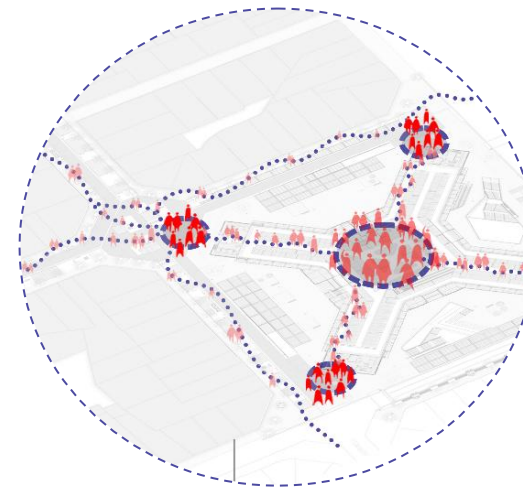


LIGHTING ELEMENTS

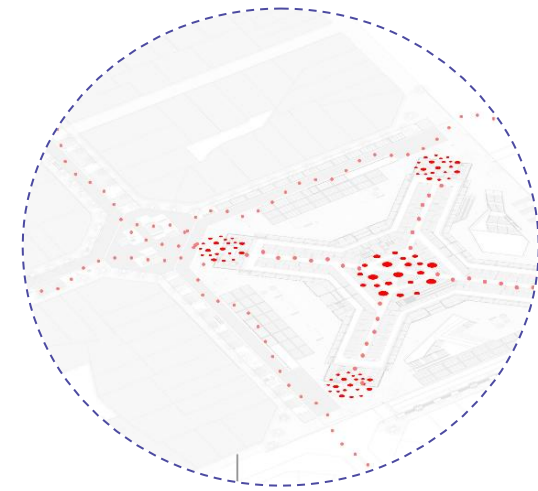
Respond to pedestrian flows, creating a visual language that guides the walker's route.



OUTDOOR/ INDOOR CIRCULATION

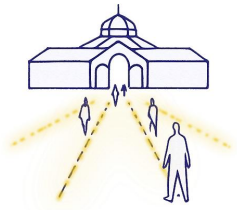


USER DENSITY



REFLECTIVE ELEMENTS





CONTINUITY

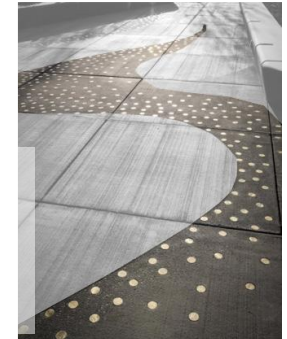
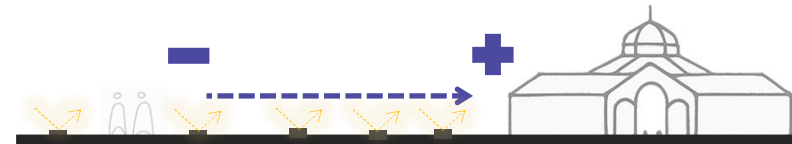
Rhythm and movement

LIGHTING EFFECTS



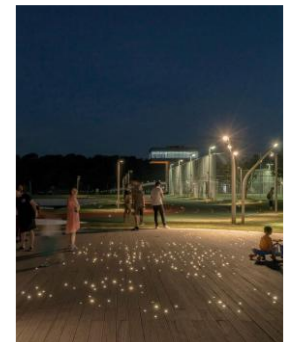
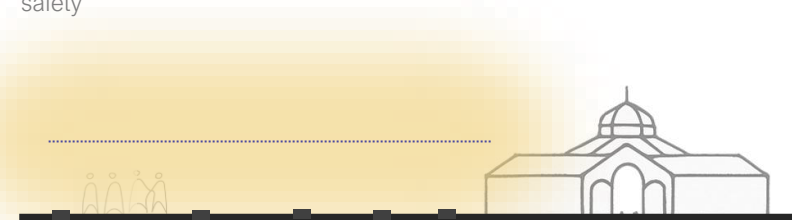
REFLECTIVE ELEMENTS

Proximity to the market defines element placement and guides pedestrian flow

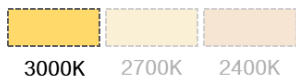


GENERAL LIGHTING

A clear, enveloping light guides the path, creating calm and safety

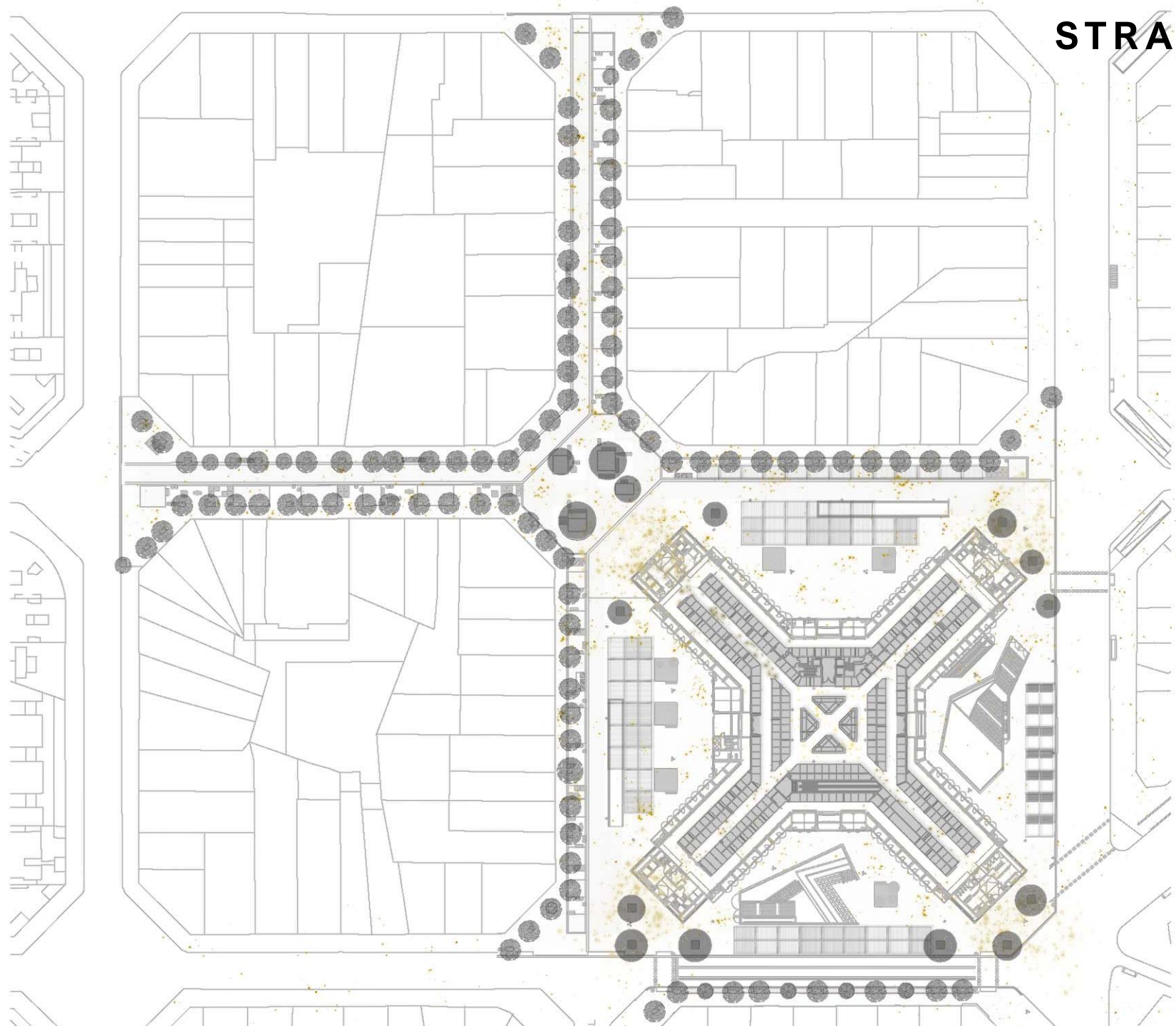


Color temperature



CONTINUITY

Rhythm and movement



During the day

its intervention is revealed through the dialogue with natural light

CONTINUITY

Rhythm and movement

While at night

it transforms through the activation of artificial lighting

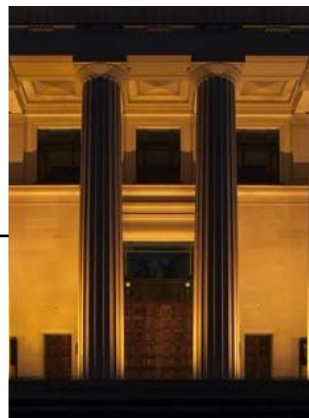
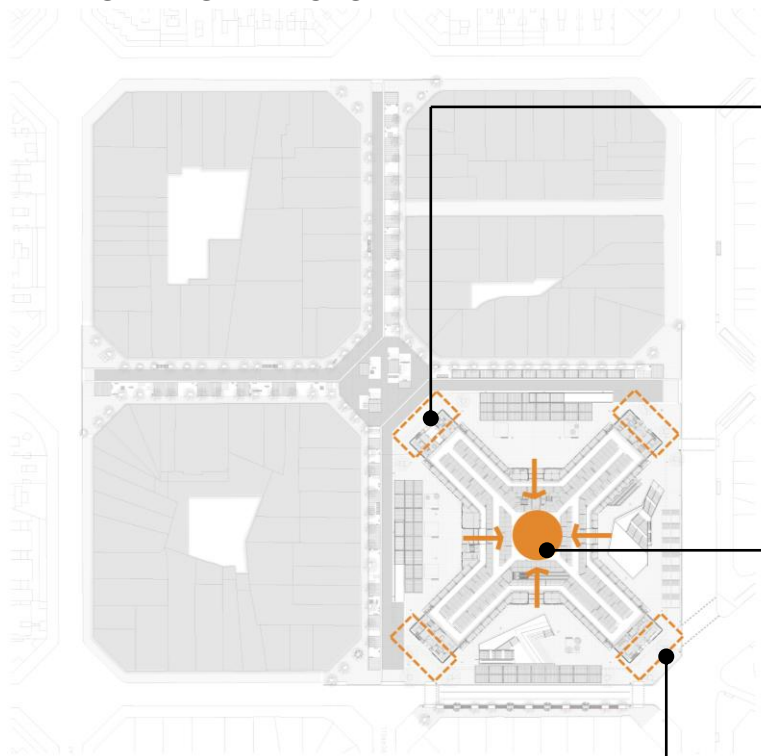




ATTRACTION

Invitation to visit

LIGHTING EFFECTS



GRADIENT LIGHT

Key areas of the market through soft transitions that attract without harsh contrasts



SCULPTURAL LIGHT

Serves as a visual landmark, adding identity and a 'wow' effect to the space

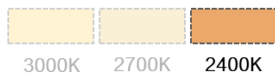


DYNAMIC LIGHT

Transforms the space into an expressive experience that engages with the architecture

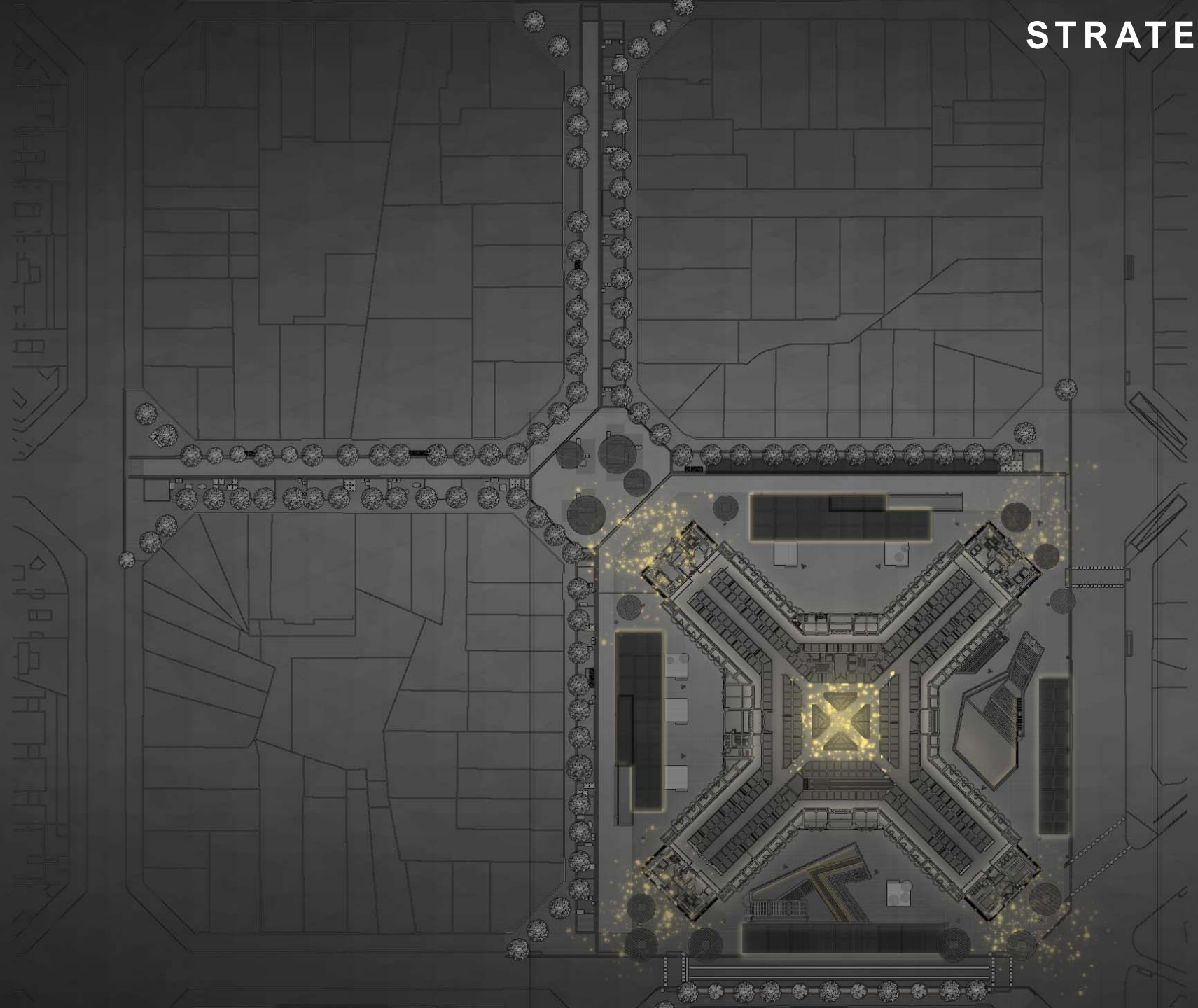


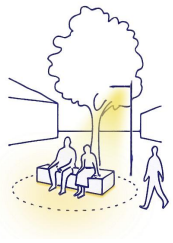
Color temperature



ATTRACTION

Invitation to visit



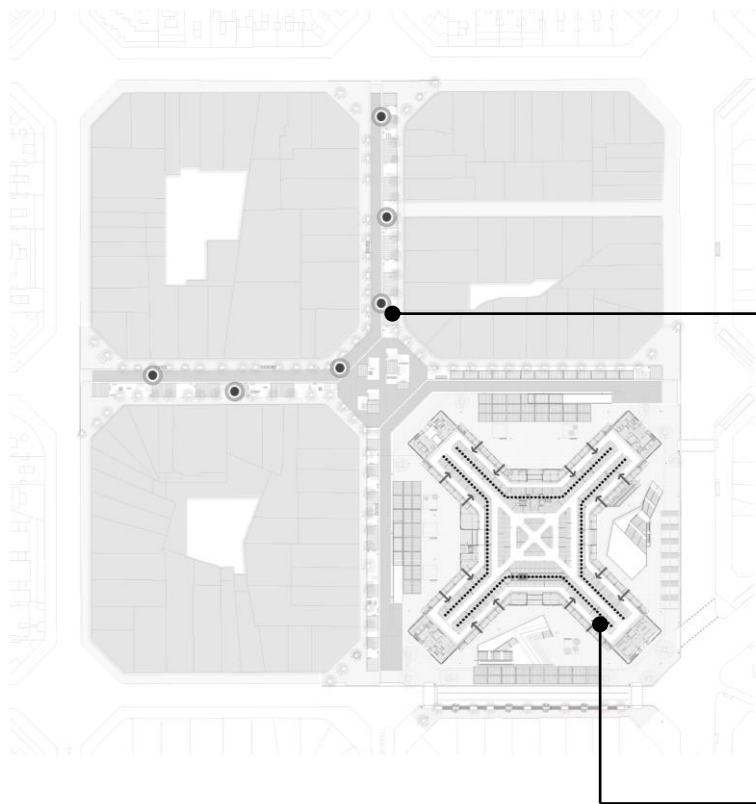


EXCHANGE

Change of activities

STRATEGIES

LIGHTING EFFECTS

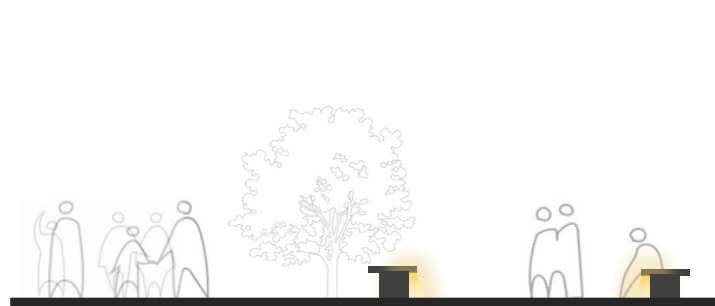


Color temperature



STREET FURNITURE

Creates more comfortable, inviting resting areas that connect with the surroundings



FACADE SHOP

Storefronts are visually unified and softly illuminated to enhance their lateral presence

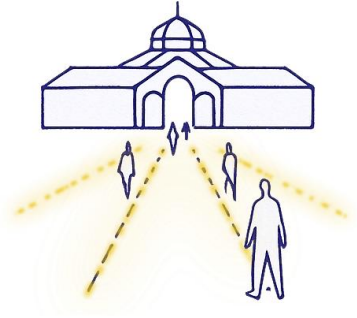


EXCHANGE

Change of activities



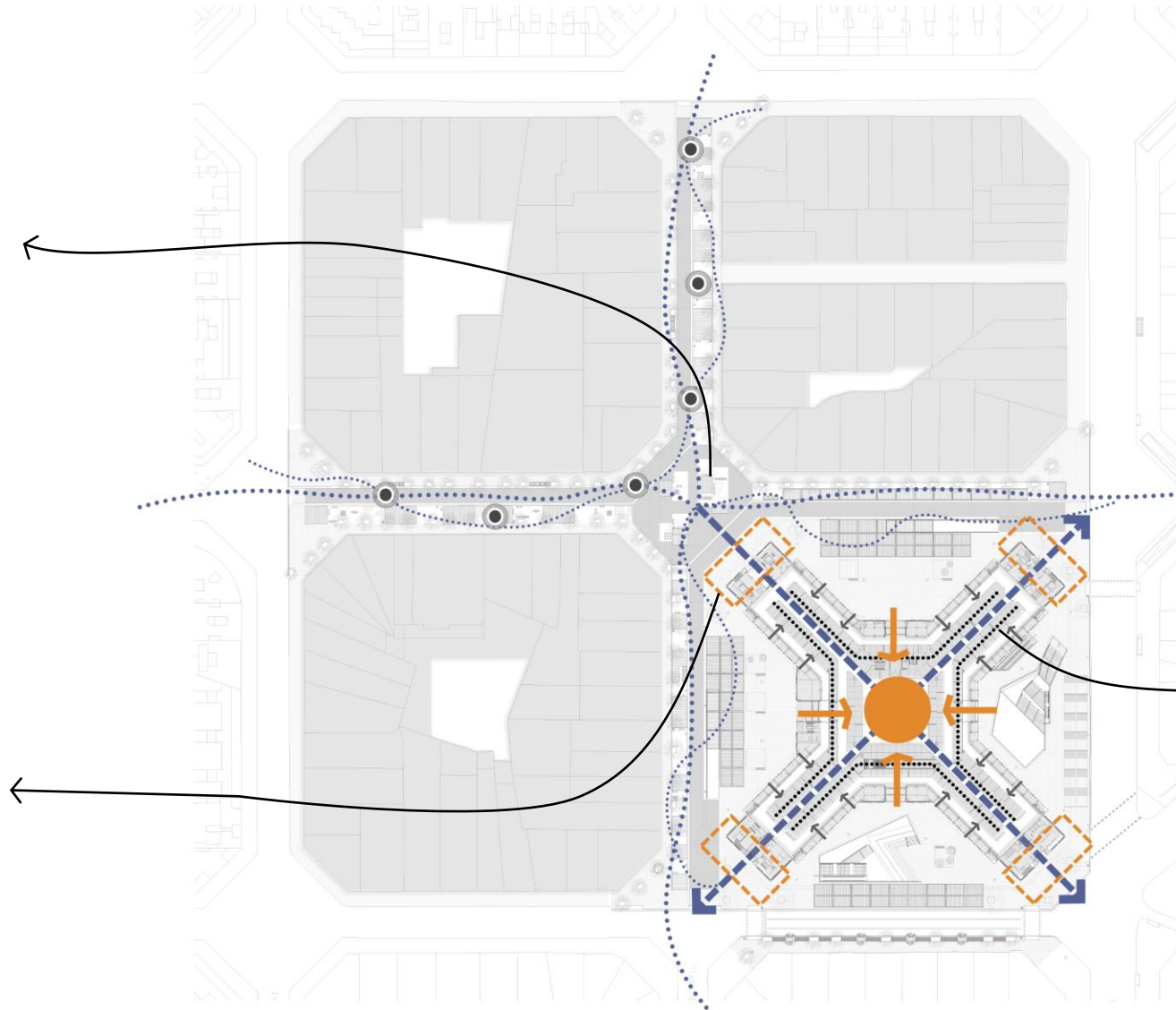
STRATEGIES



CONTINUITY
Rhythm and movement



ATTRACTION
Invitation to visit

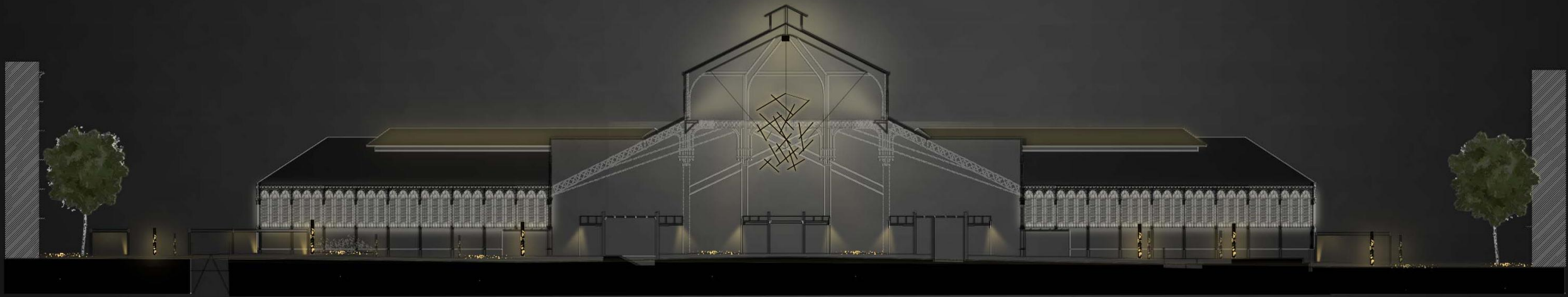


EXCHANGE
Change of activities

LIGHTING PLAN



LIGHTING PLAN



LIGHTING VIEWS



CONTINUITY

LIGHTING VIEWS



CONTINUITY

LIGHTING VIEWS



ATTRACTION



INTERVENTION AREA



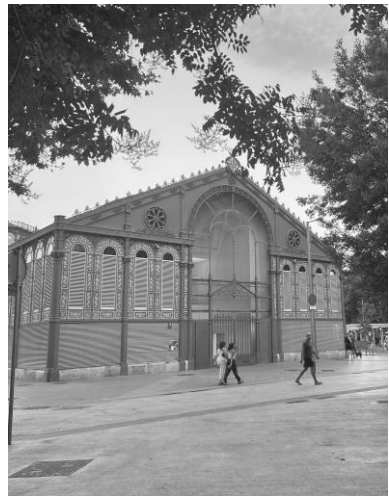
1 DOME



2 HALLWAY



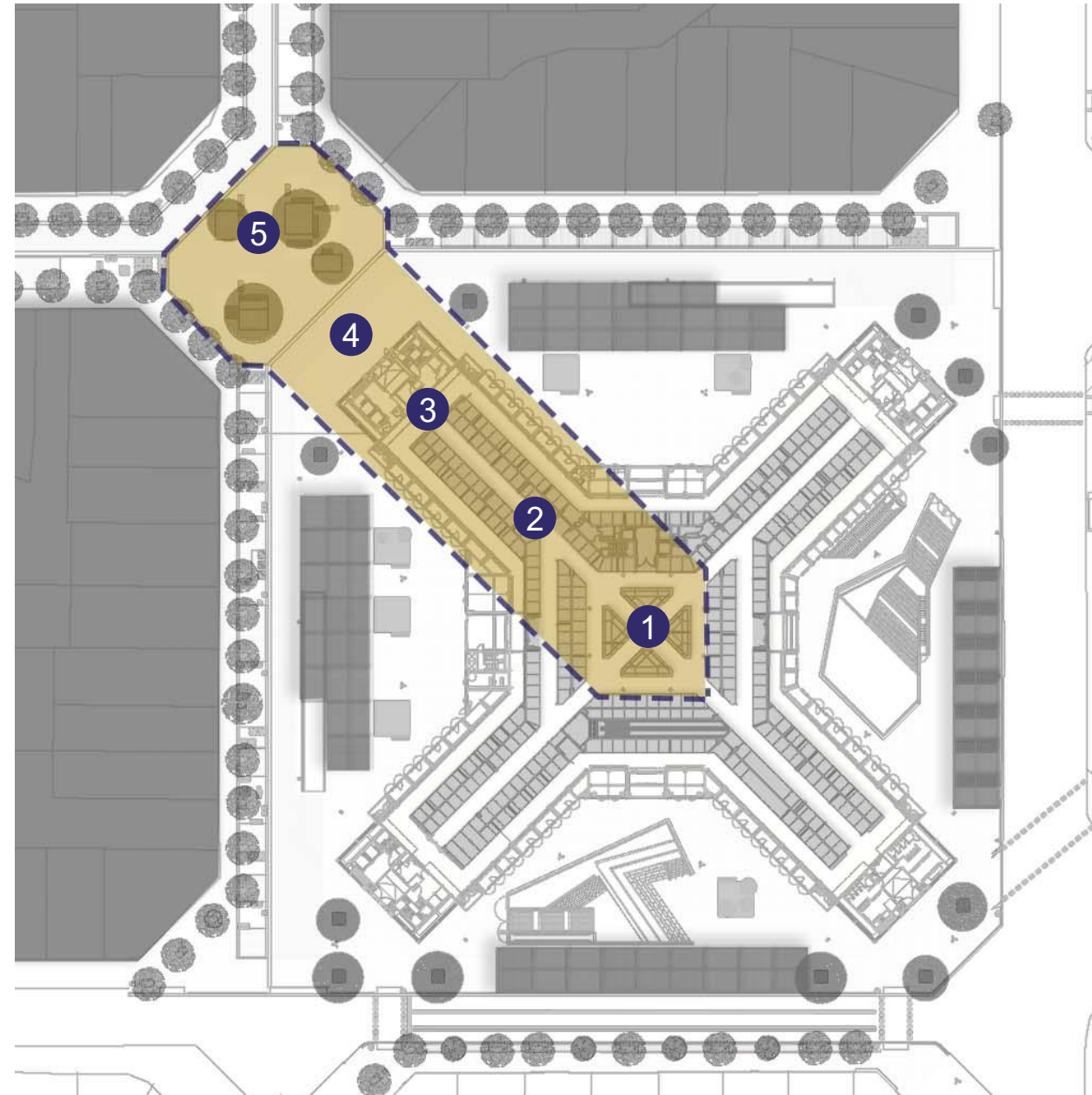
3 ACCESS



4 ACCESS SQUARE



5 OUTDOOR SQUARE



LIGHTING METHODS

STRATEGY CONTINUITY



DIRECTIONAL
Reflective guide elements - movement



LANDSCAPE
Enveloping light

STRATEGY ATTRACTION



GRADIENT
Progressively highlight vertical planes



SCULPTURAL
Central effect of the project



DYNAMIC
Generates movement and changes
according to activity

STRATEGY EXCHANGE



GRAZING
Discreetly accentuate elements of pause



DELIMITATOR
Envelops and marks the space

LIGHTING METHODS

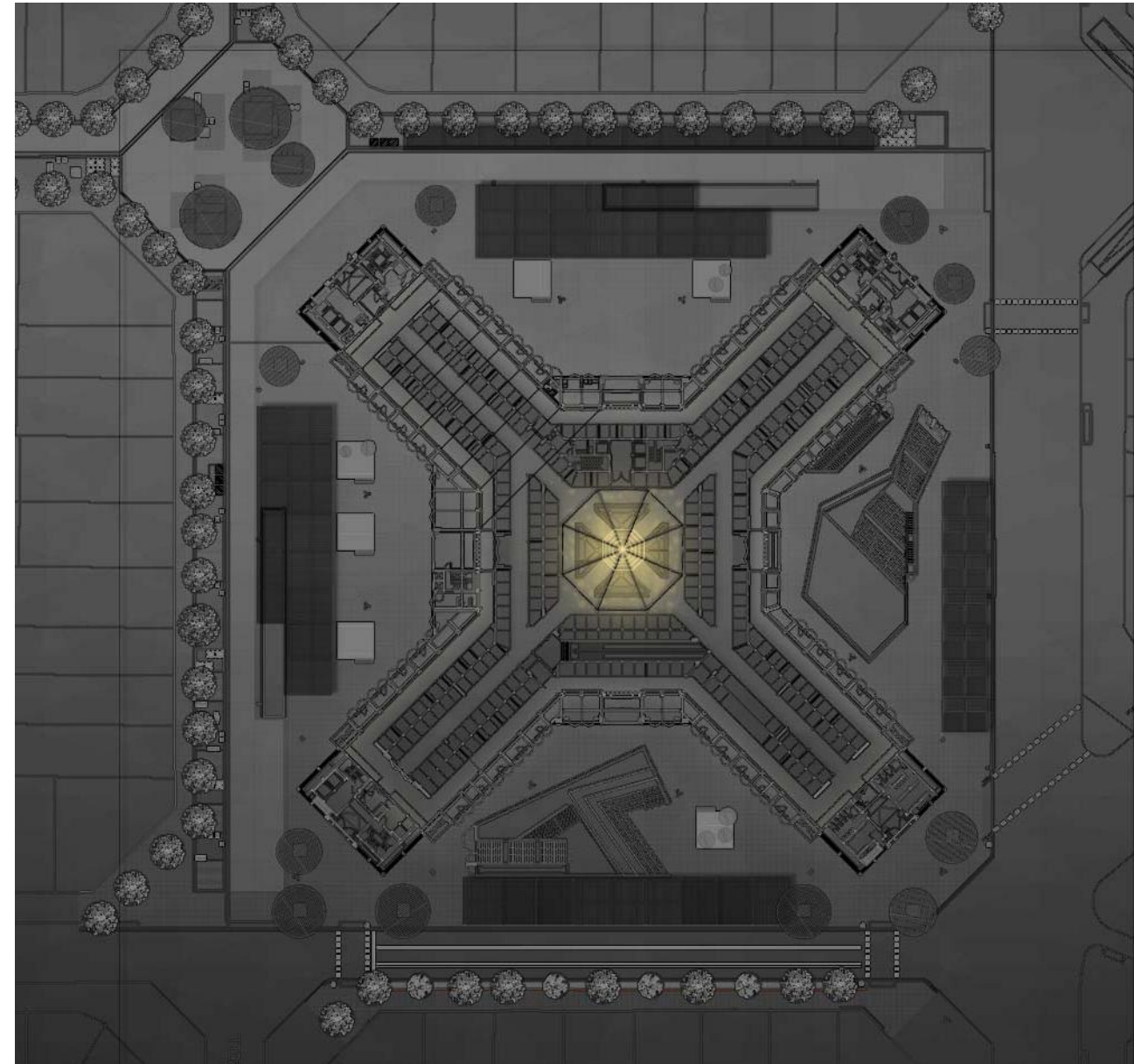
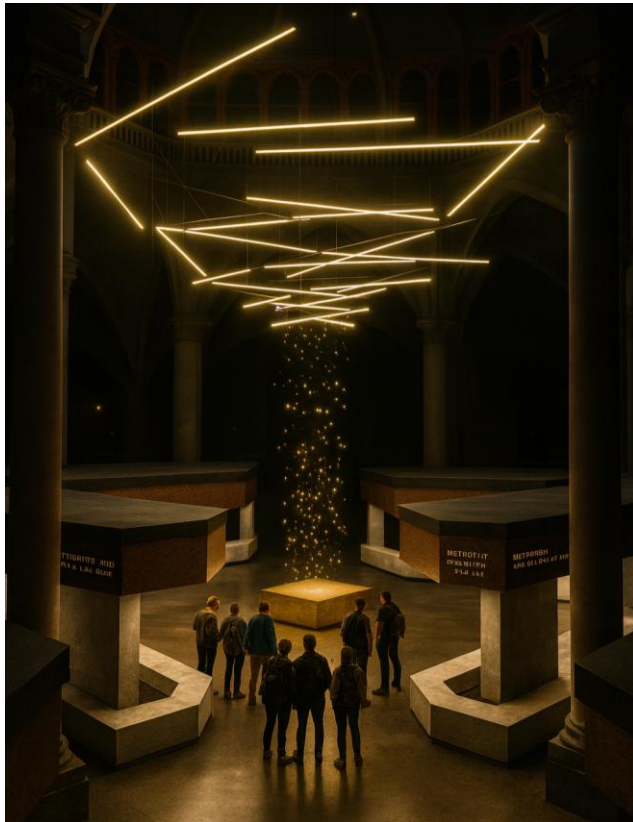
INTERVENTION AREA

DOME



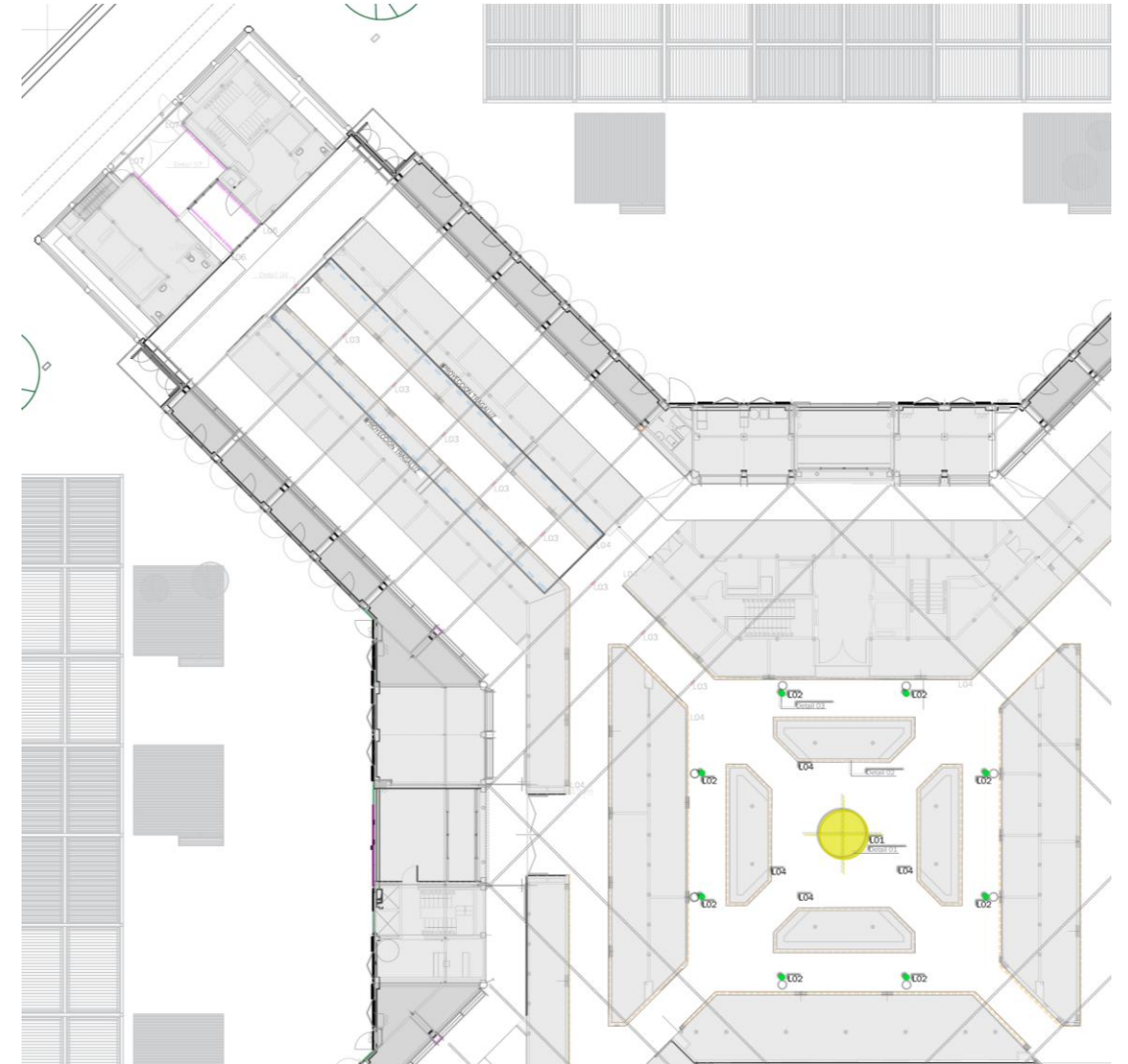
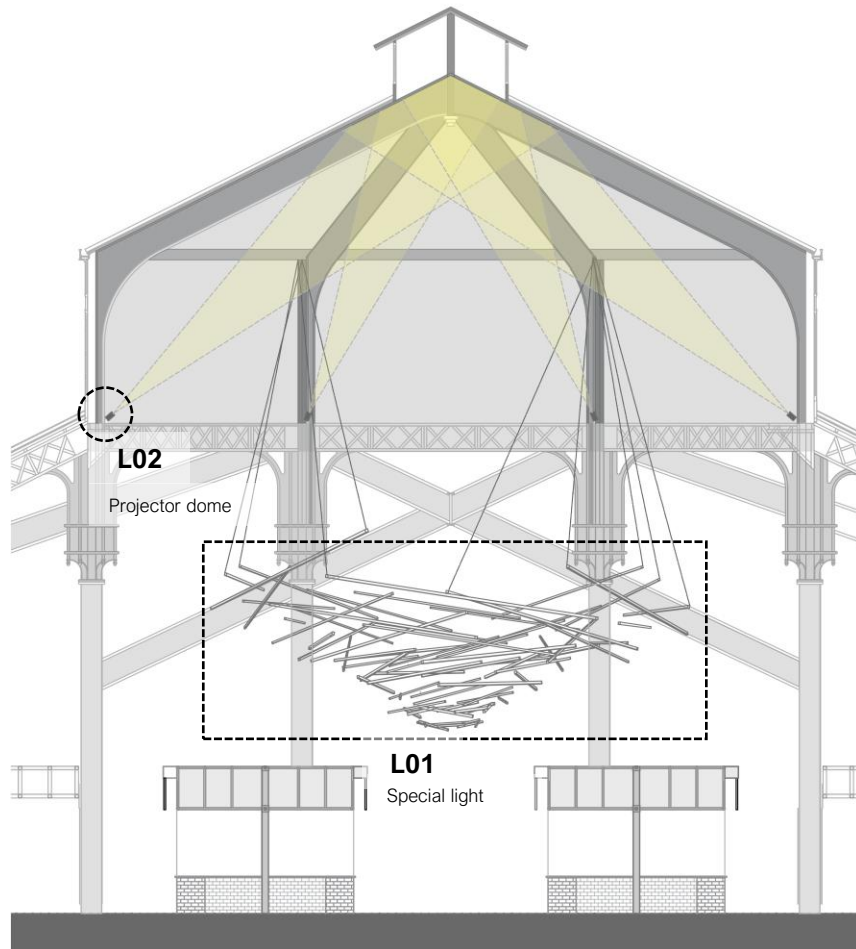
EXCHANGE

Central node that channels flows, suspended as a space for pause, encounter, and contemplation



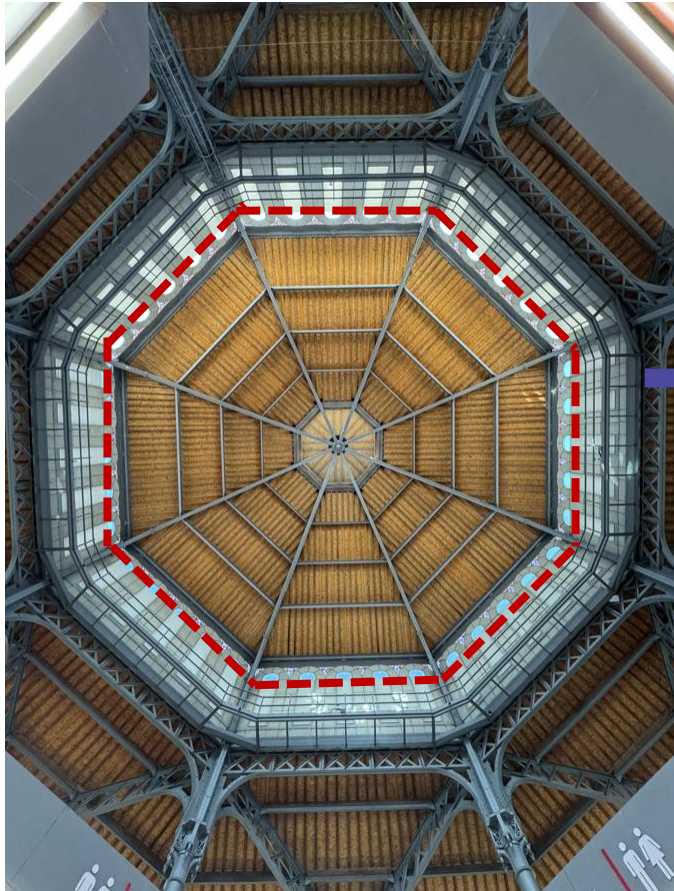
LIGHTING PLAN

INTERVENTION AREA DOME

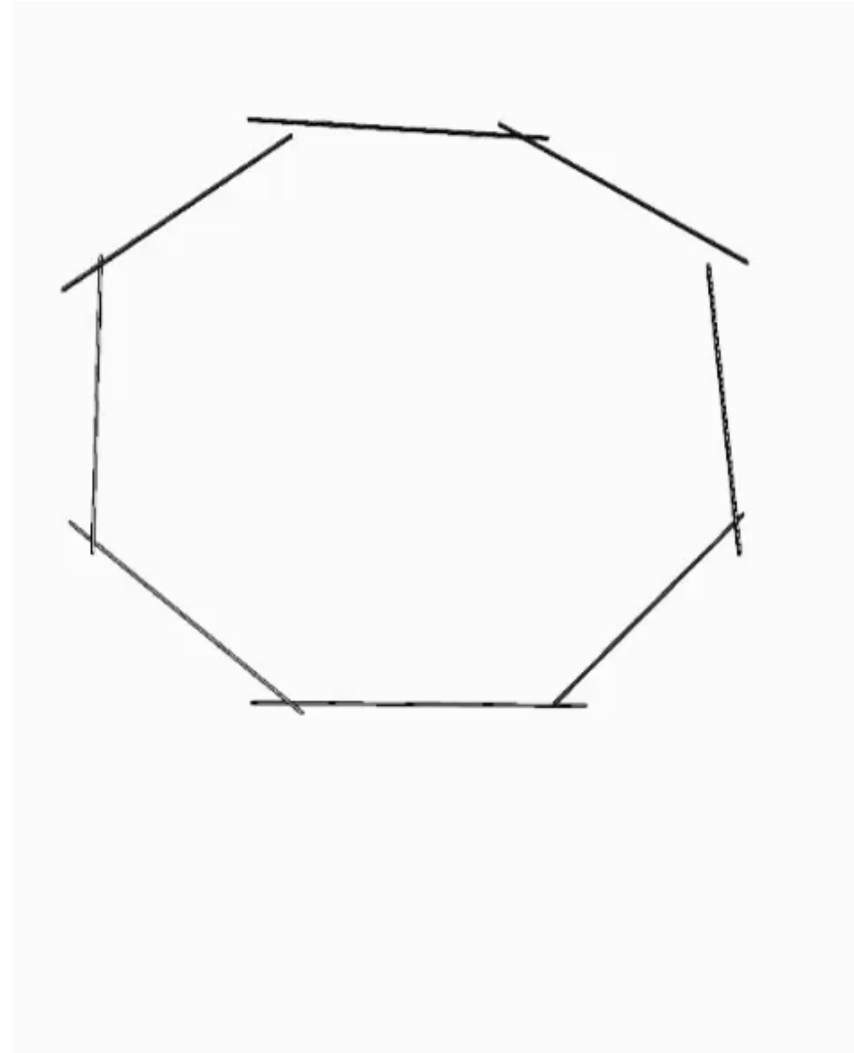


LIGHTING PLAN

INTERVENTION AREA
DOME



ROOF GEOMETRY
OCTAGON



SPECIAL LIGHTING
SUSPENDED

LIGHTING PLAN

INTERVENTION AREA

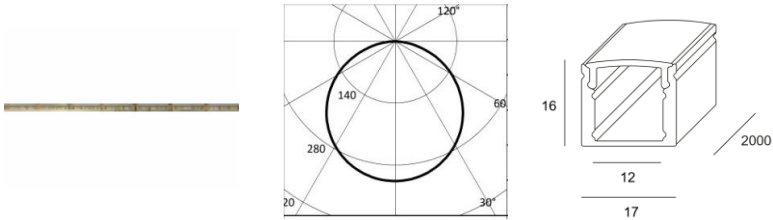
DOME

SCULPTURAL



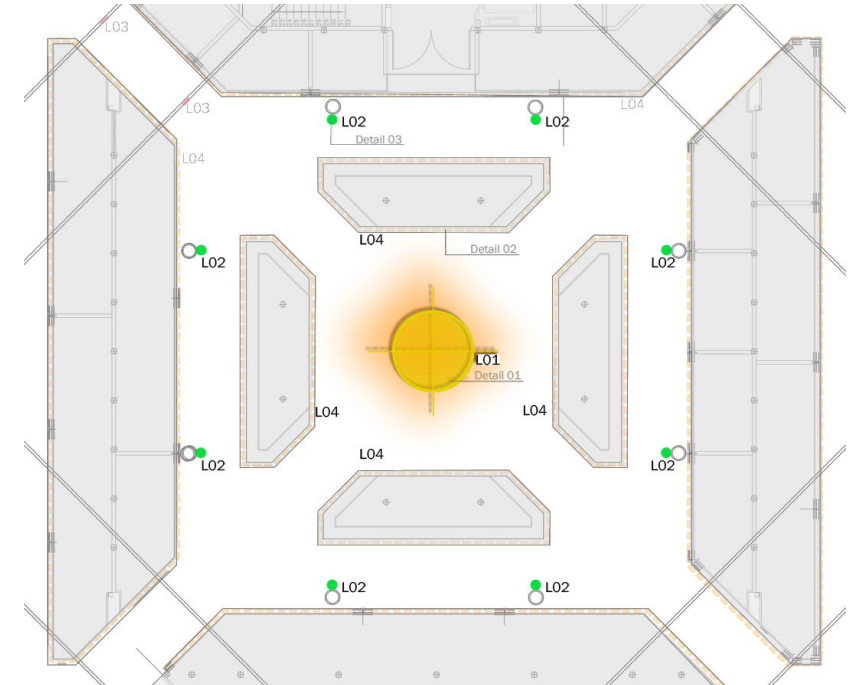
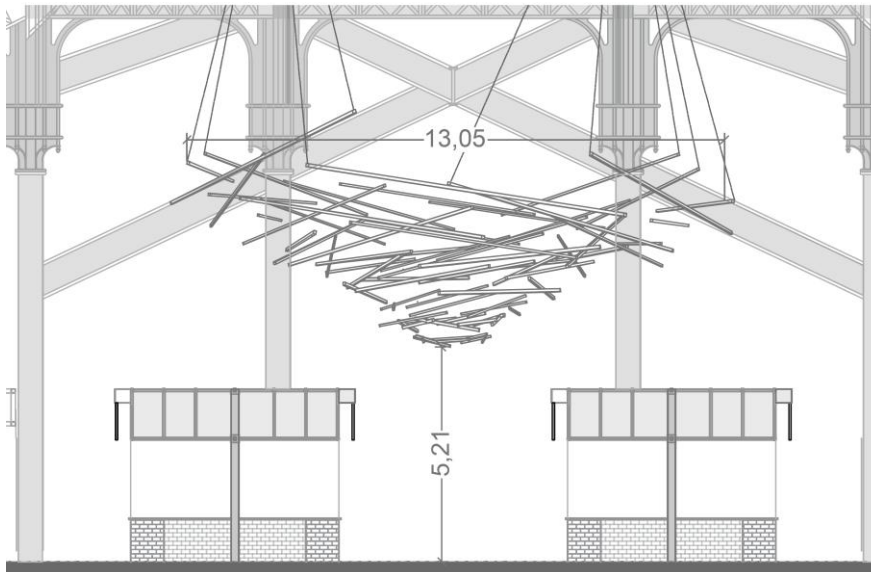
LIGHTING REFERENCES

L01 LED strip 24V
9.6 W/m, 900 lm/m, 120° 3000k



MATERIALS

Translucent, shiny,
and matte



LIGHTING PLAN

INTERVENTION AREA

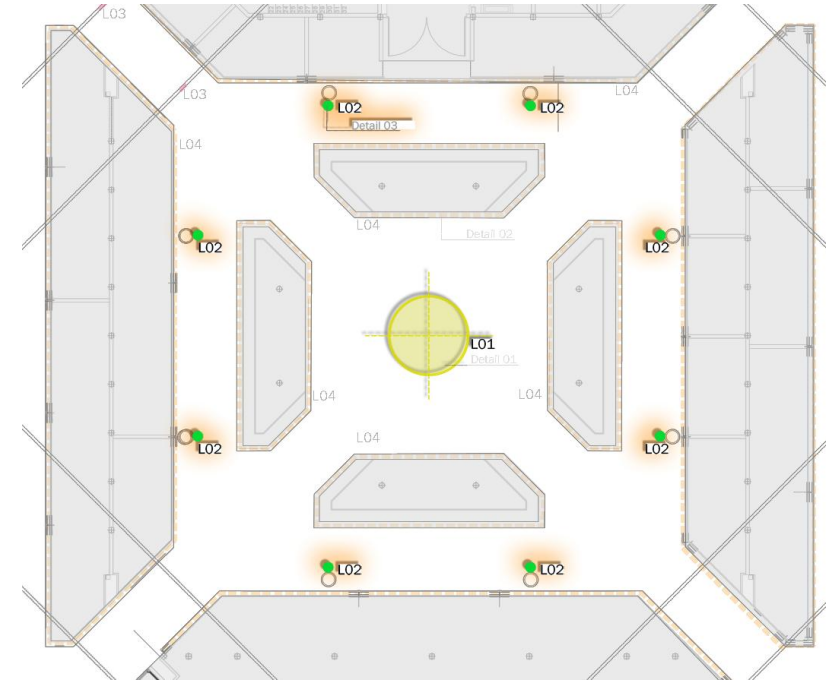
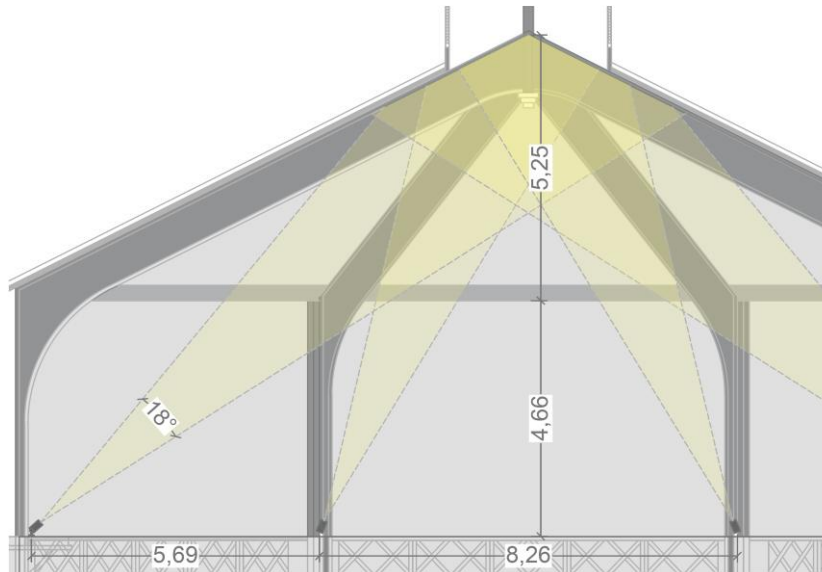
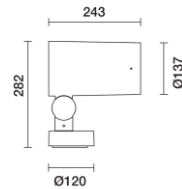
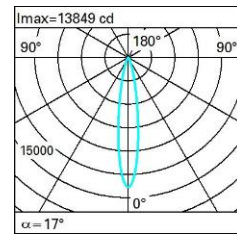
DOME

SCULPTURAL



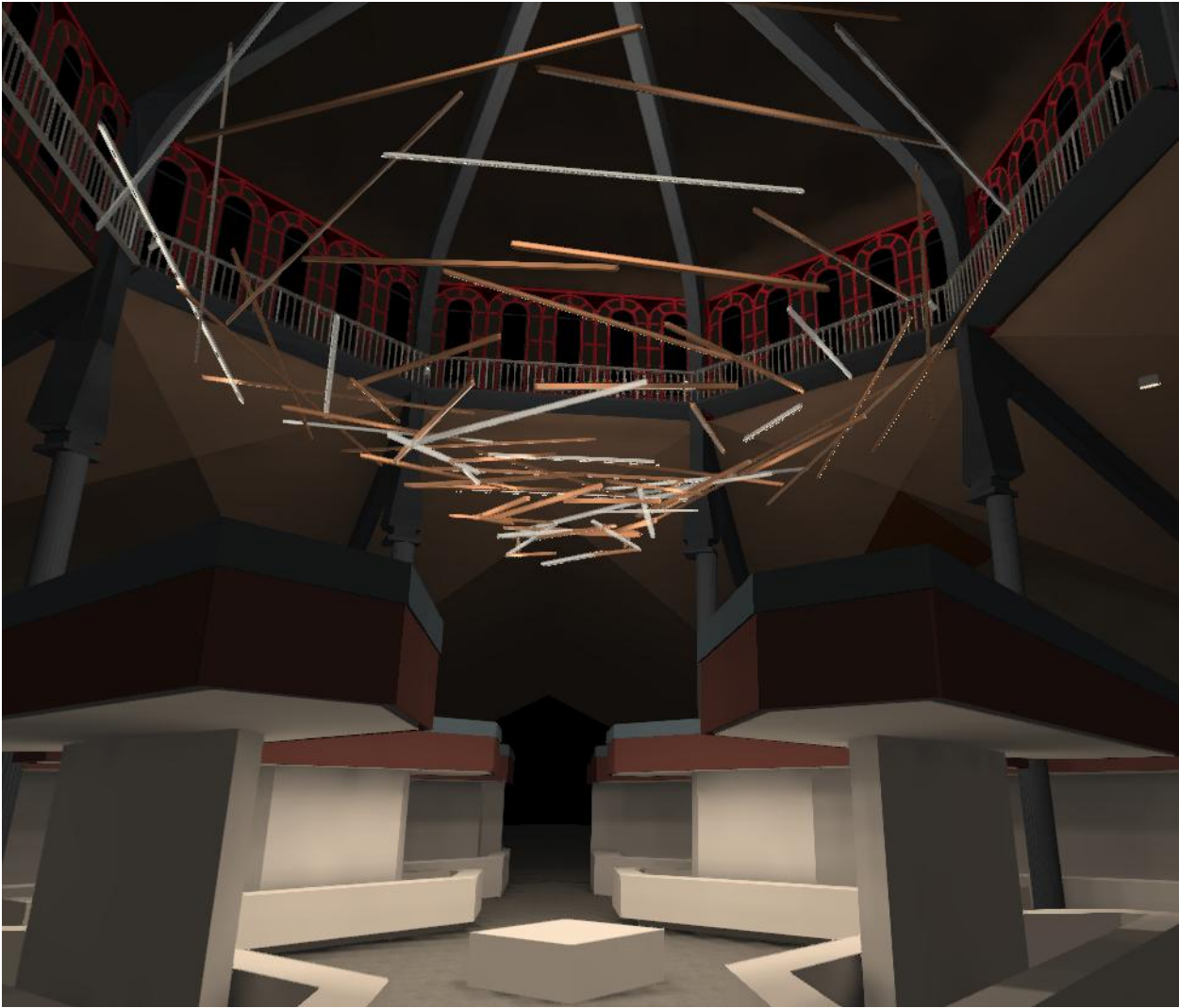
LIGHTING REFERENCES

L02 Projector surface IP66 - 20W 2094lm 3000k
Optica 18°



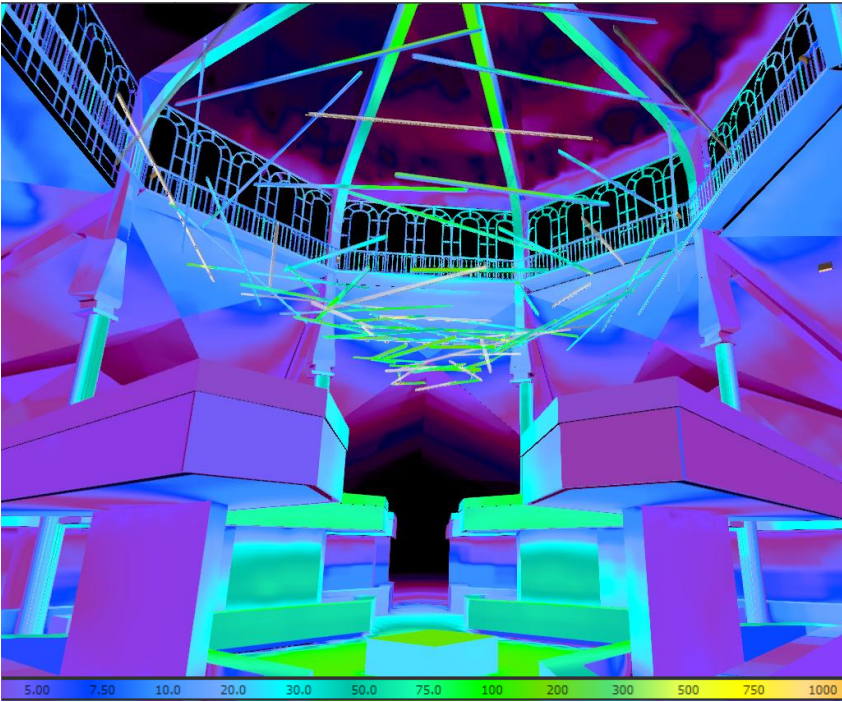
INTERVENTION AREA

DOME



LIGHTING PLAN

LIGHTING RESULTS



Propiedades	E	E _{min}	E _{max}	U _o (g ₁)	g ₂	Índice
Superficie de cálculo 3 Iluminancia perpendicular Altura: 0.100 m	121 lx	89.8 lx	146 lx	0.74	0.62	CG1

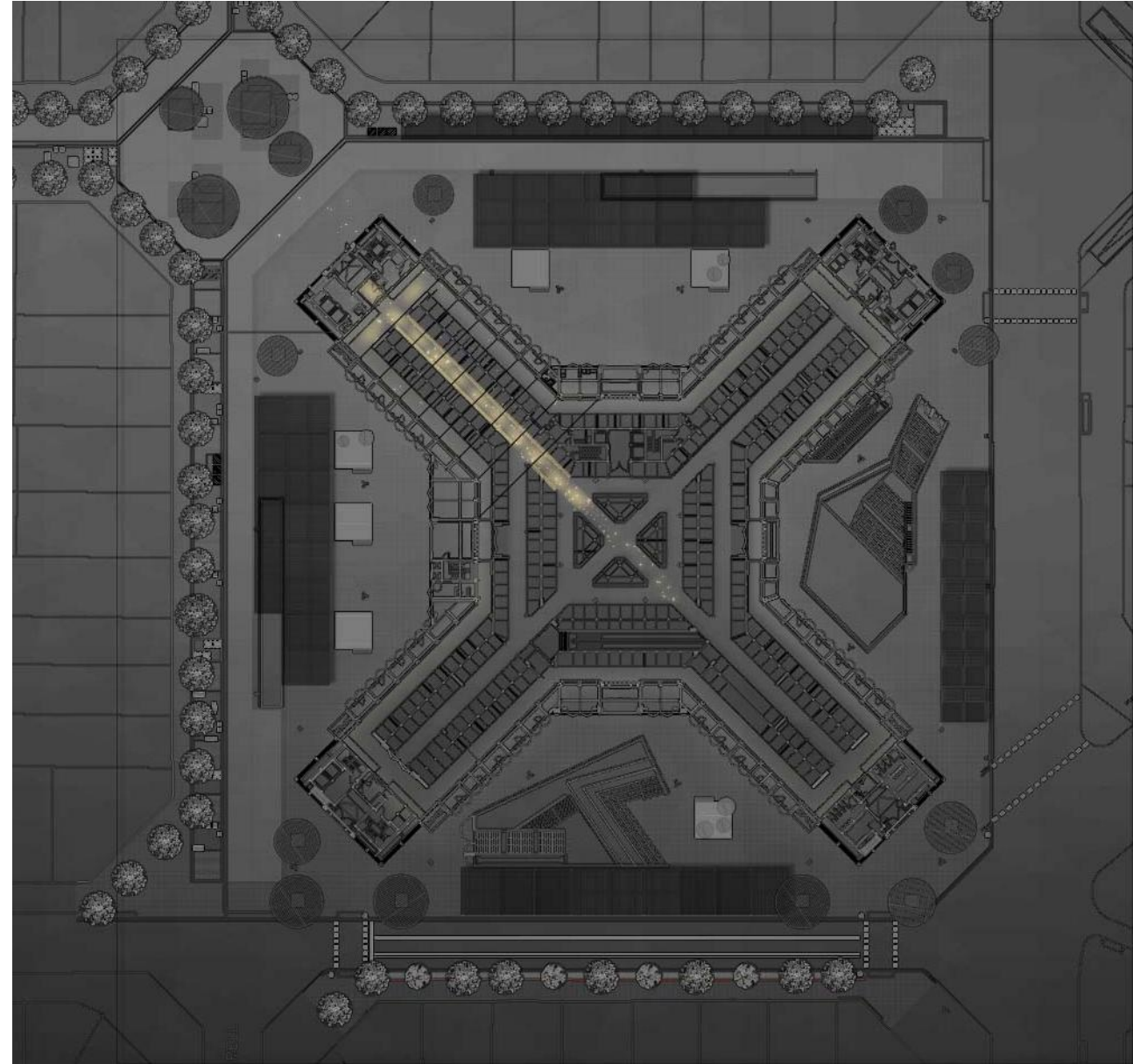
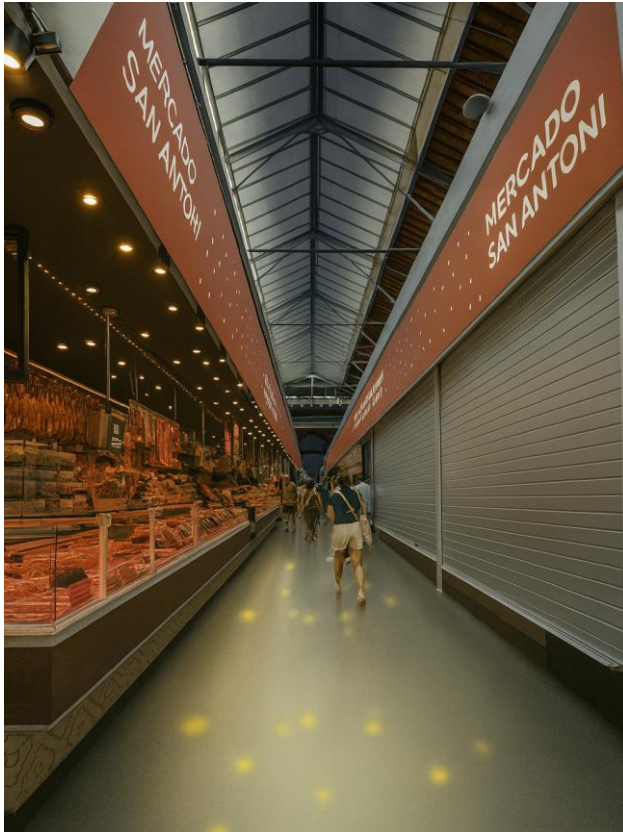
LIGHTING PLAN

INTERVENTION AREA HALLWAY



EXCHANGE

Light guides movement through the market, accompanying the pedestrian without interrupting the flow

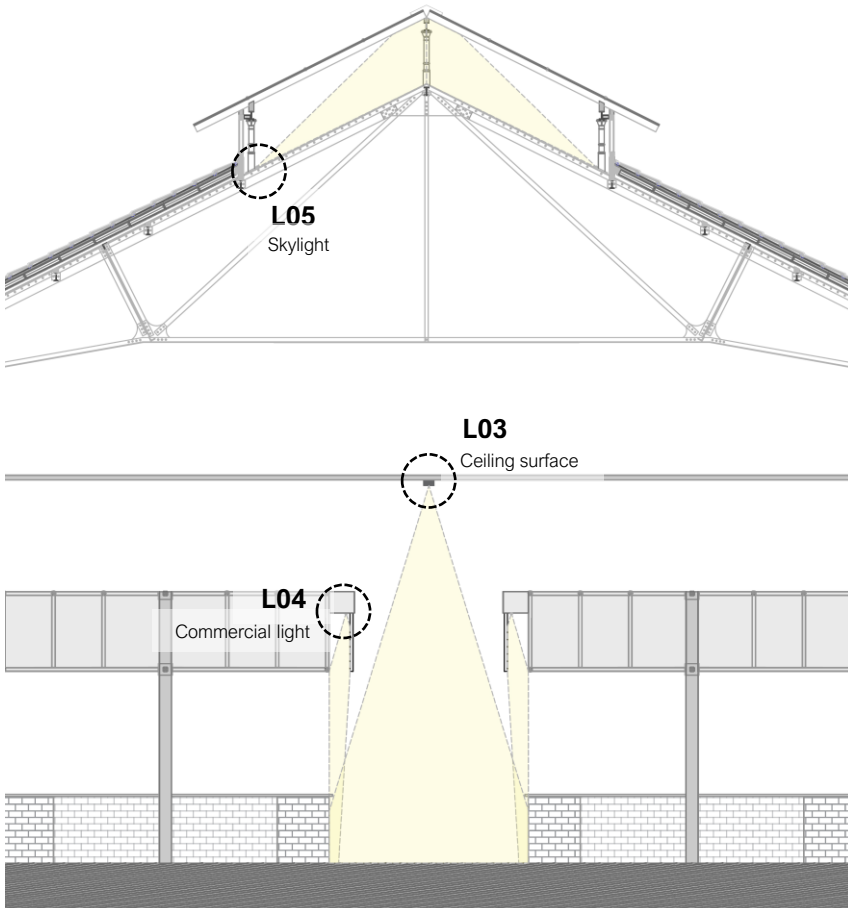


LIGHTING PLAN

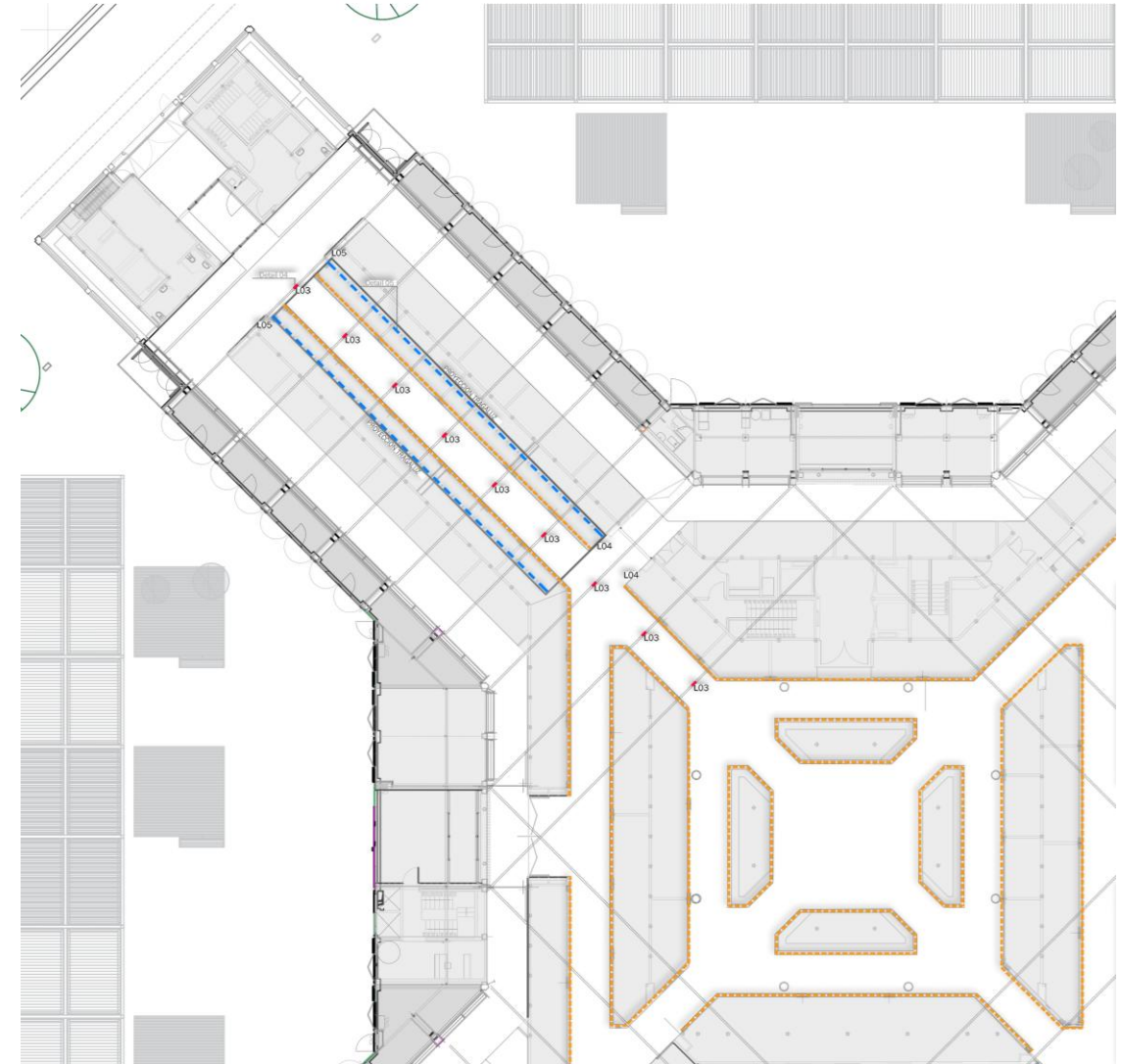
INTERVENTION AREA

HALLWAY

LIGHTING ELEVATION



LIGHTING PLAN



LIGHTING PLAN

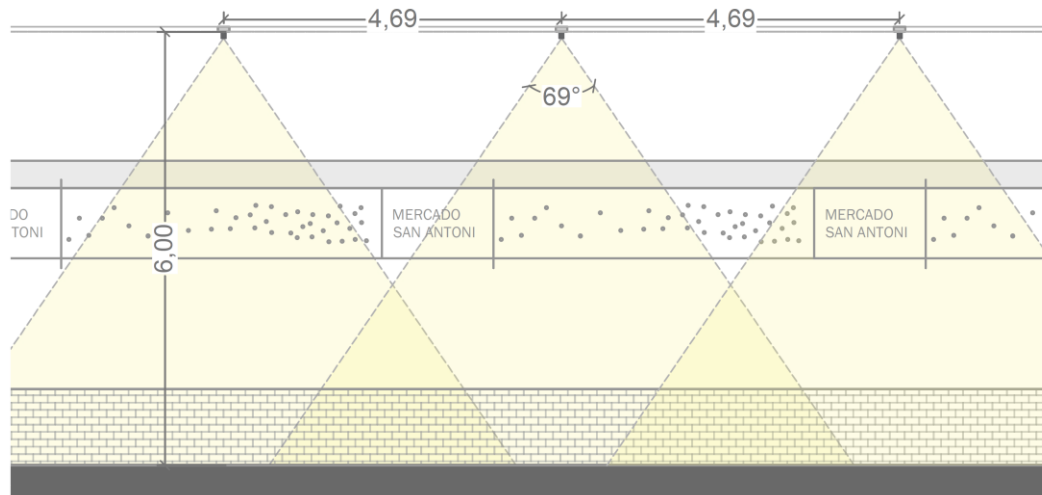
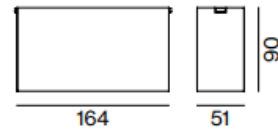
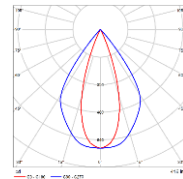
INTERVENTION AREA HALLWAY

LANDSCAPE



LIGHTING REFERENCES

L03 Ceiling surface IP20 - 20,4W 1620lm 3000k
Optica 34° X 69°



LIGHTING PLAN

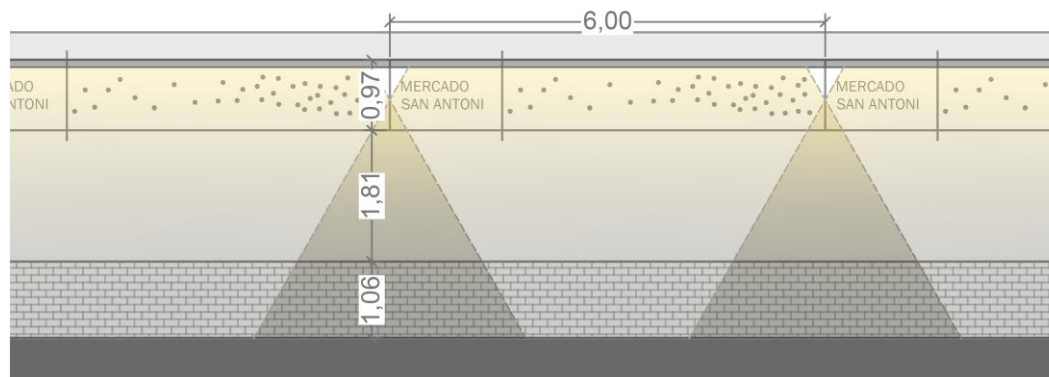
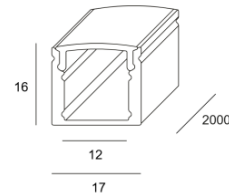
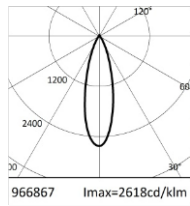
INTERVENTION AREA HALLWAY

DELIMITATOR



LIGHTING REFERENCES

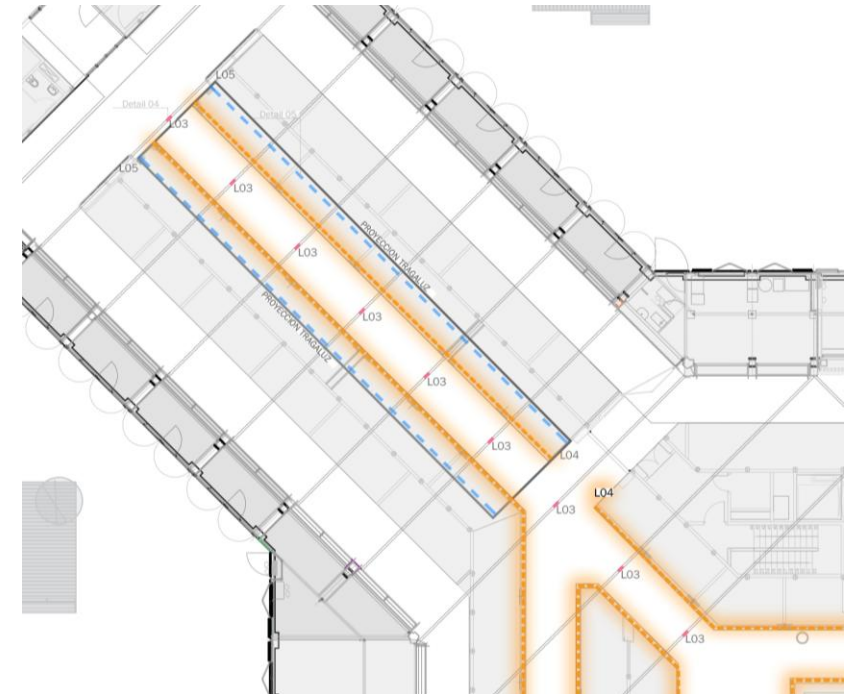
L04 LED Strip 24V Optics Media
19,2W/ml 1710lm/m 3000k Optica 30°



Texture



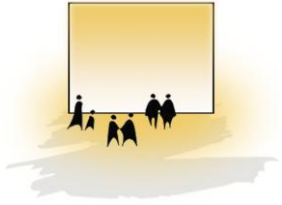
Material



LIGHTING PLAN

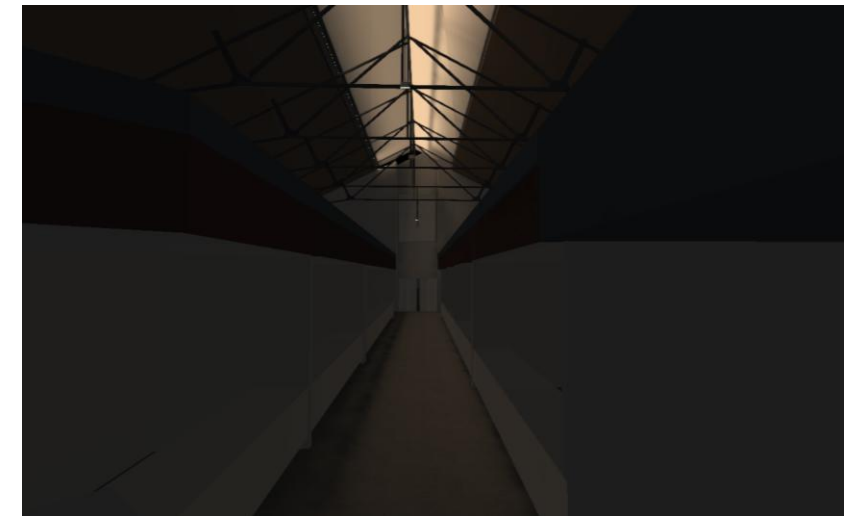
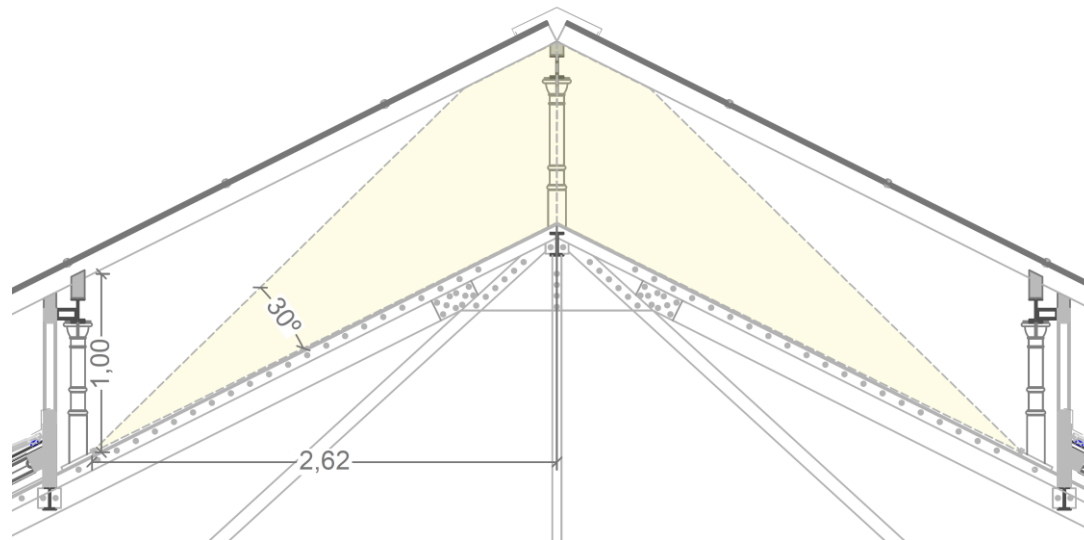
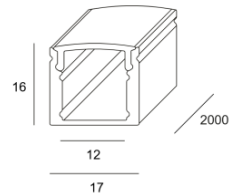
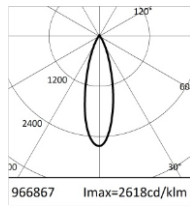
INTERVENTION AREA HALLWAY

GRADIENT



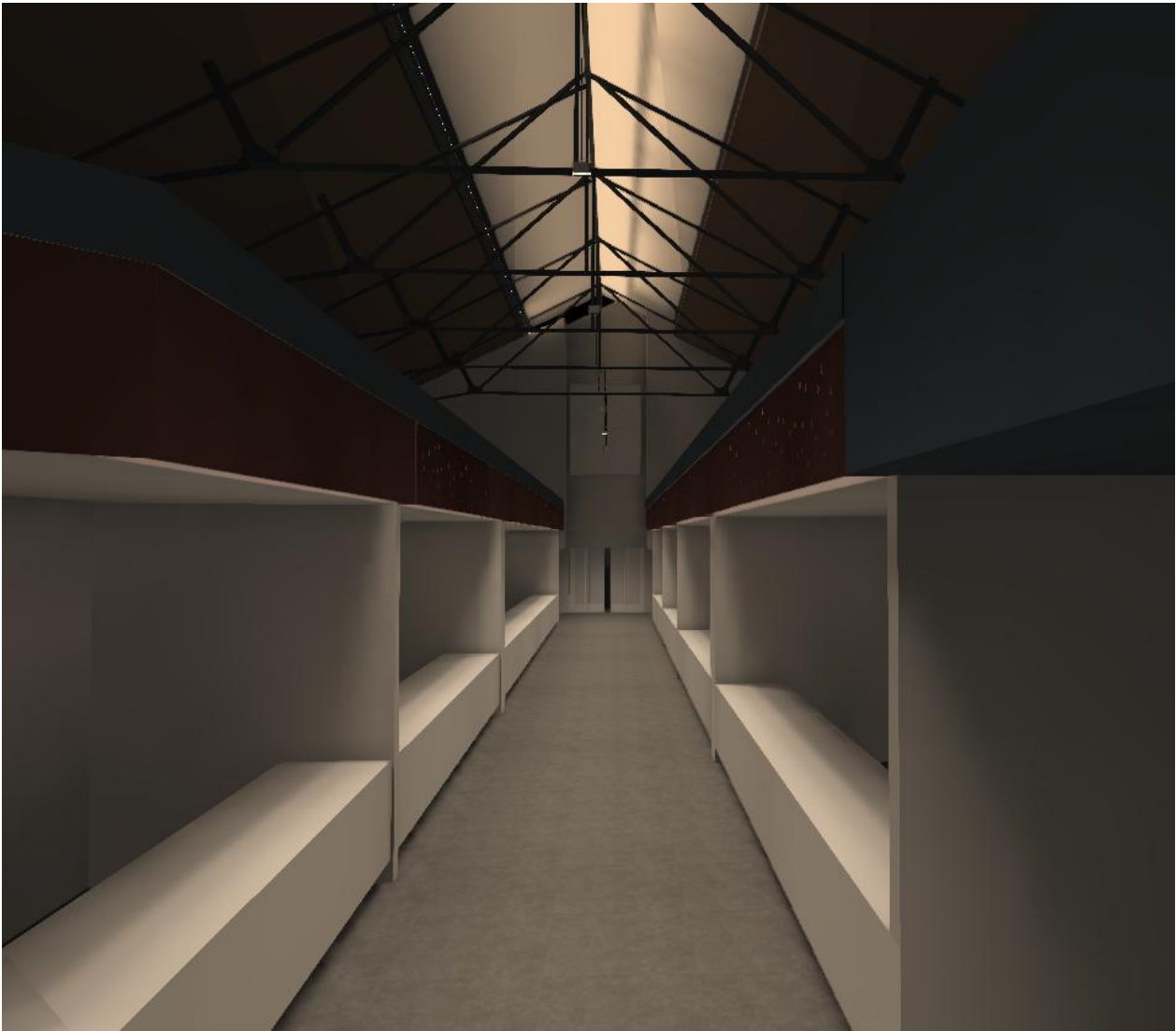
LIGHTING REFERENCES

L05 LED Strip 24V Optics Media
19,2W/ml 1710lm/m 3000k Optica 30°



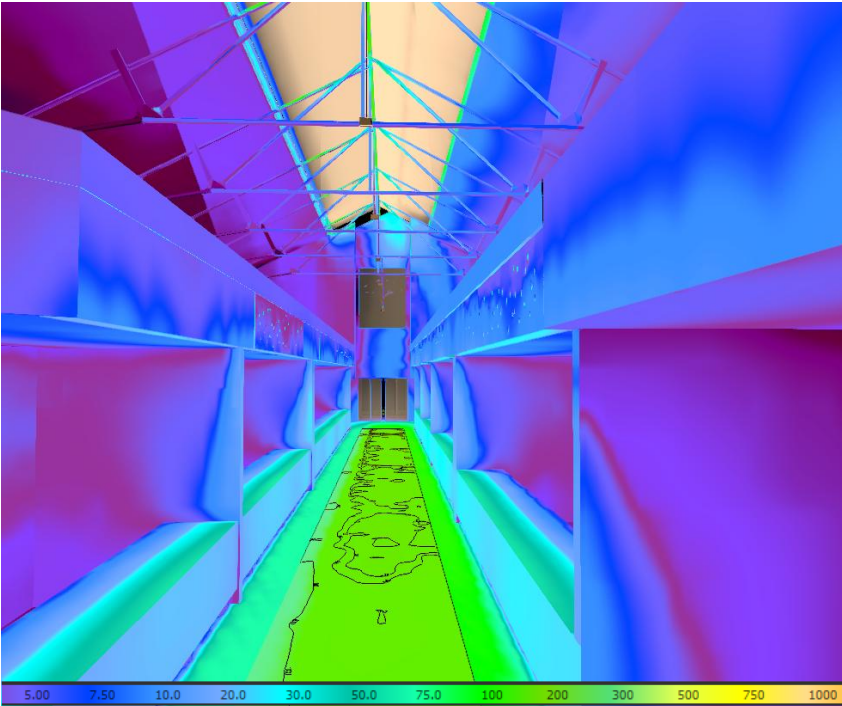
INTERVENTION AREA

HALLWAY



LIGHTING PLAN

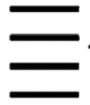
LIGHTING RESULTS



Propiedades	E	E _{min}	E _{máx}	U _o (g ₁)	g ₂	Índice
Superficie de cálculo 3 Iluminancia perpendicular Altura: 0.100 m	121 lx	89.8 lx	146 lx	0.74	0.62	CG1

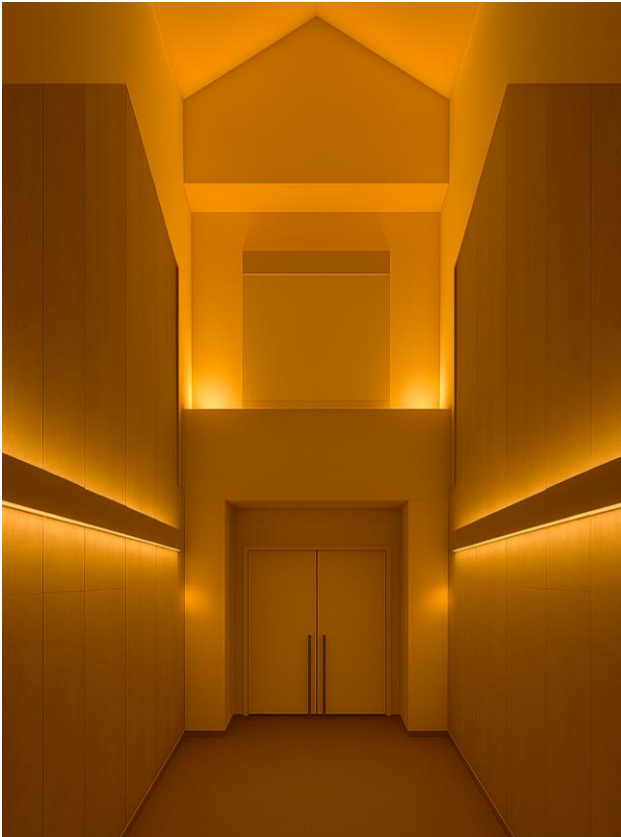
LIGHTING METHODS

INTERVENTION AREA ACCESS



ATTRACTION

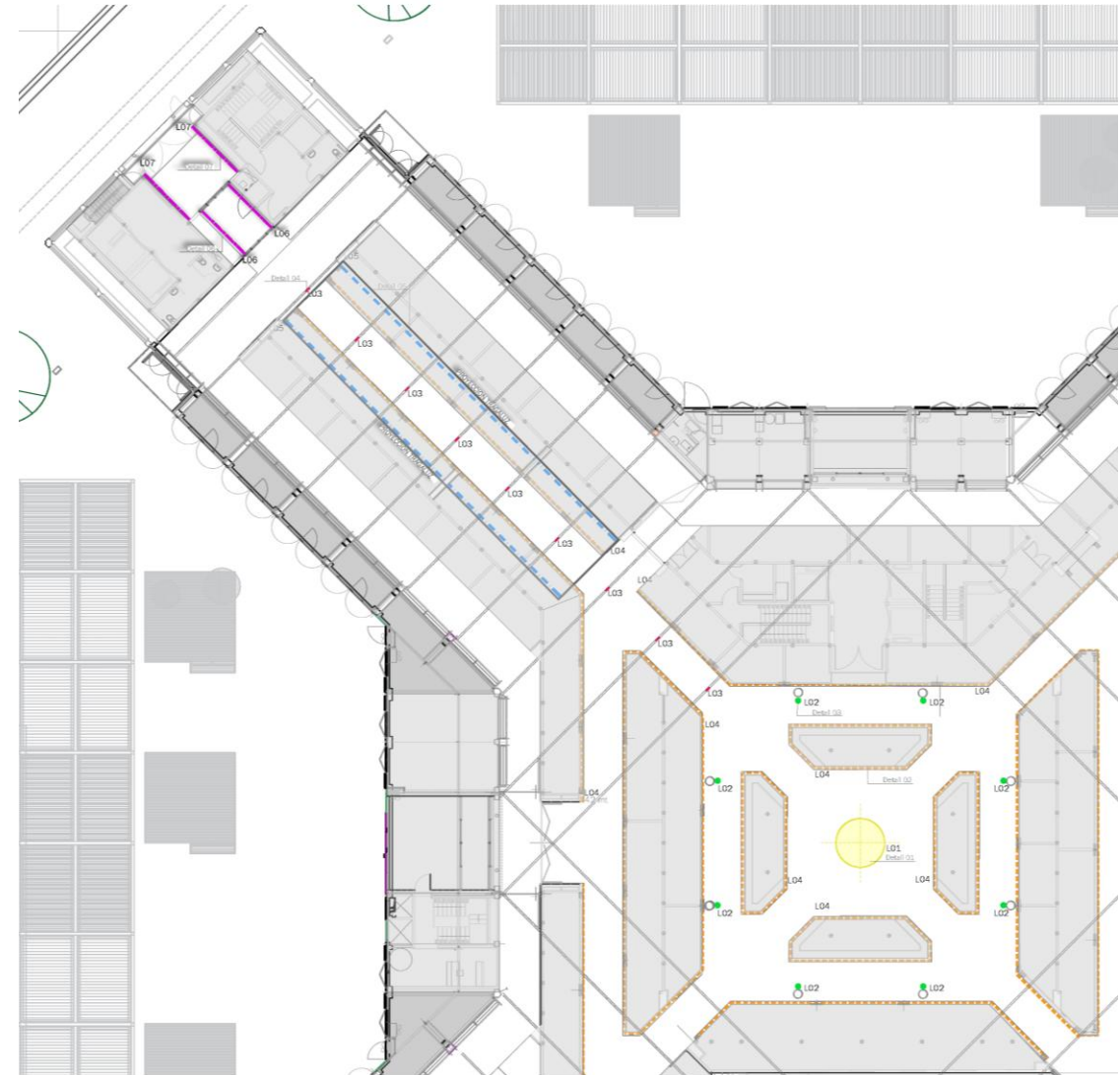
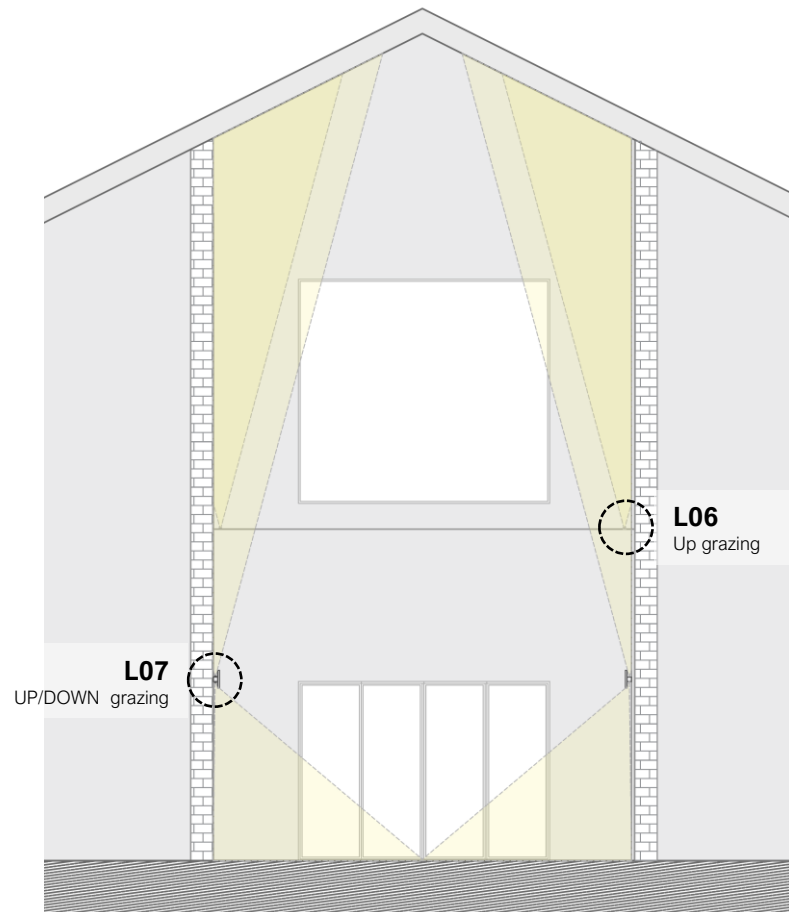
Threshold of attraction and transit, where the exterior dissolves into the interior, drawing a fluid transition toward the life of the market



LIGHTING PLAN

INTERVENTION AREA ACCESS

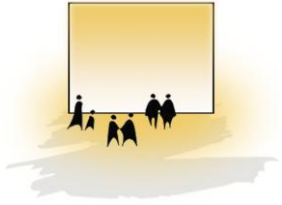
LIGHTING ELEVATION



LIGHTING PLAN

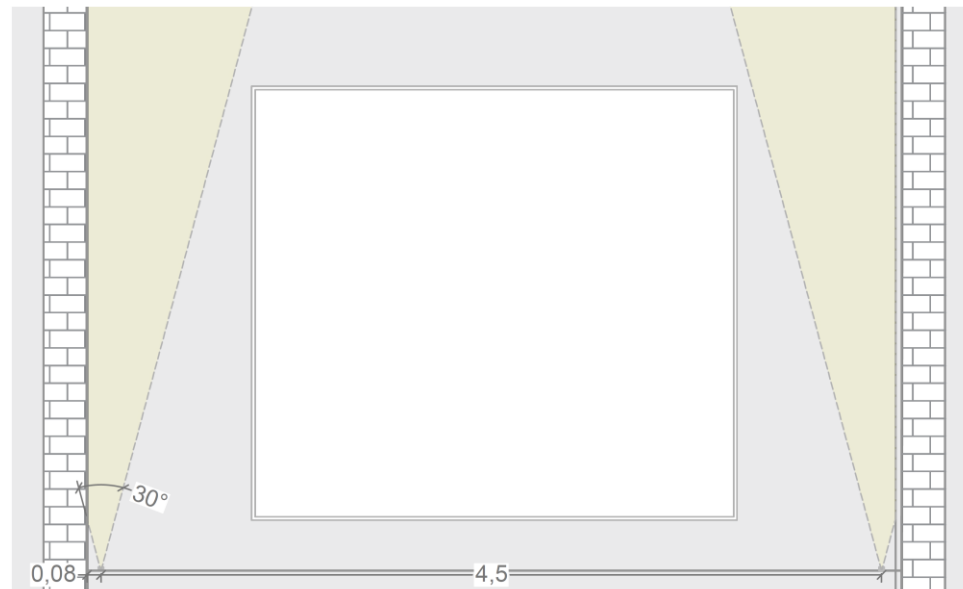
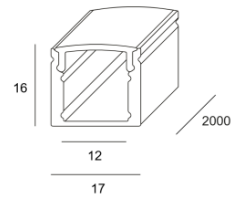
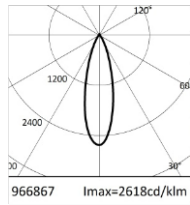
INTERVENTION AREA ACCESS

GRADIENT



LIGHTING REFERENCES

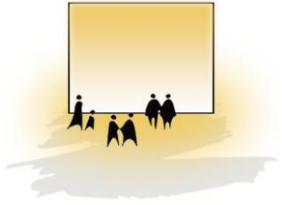
L06 LED Strip 24V Optics Media
19,2W/ml 1710lm/m 3000k Optica 30°



LIGHTING PLAN

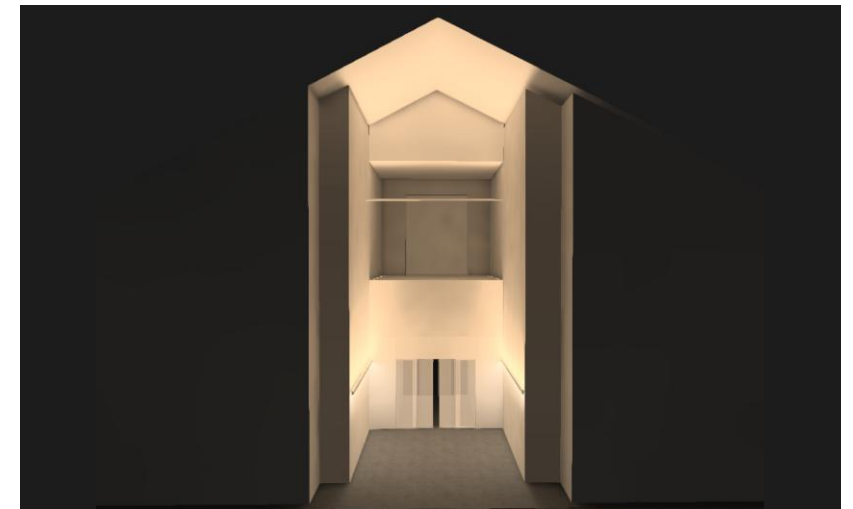
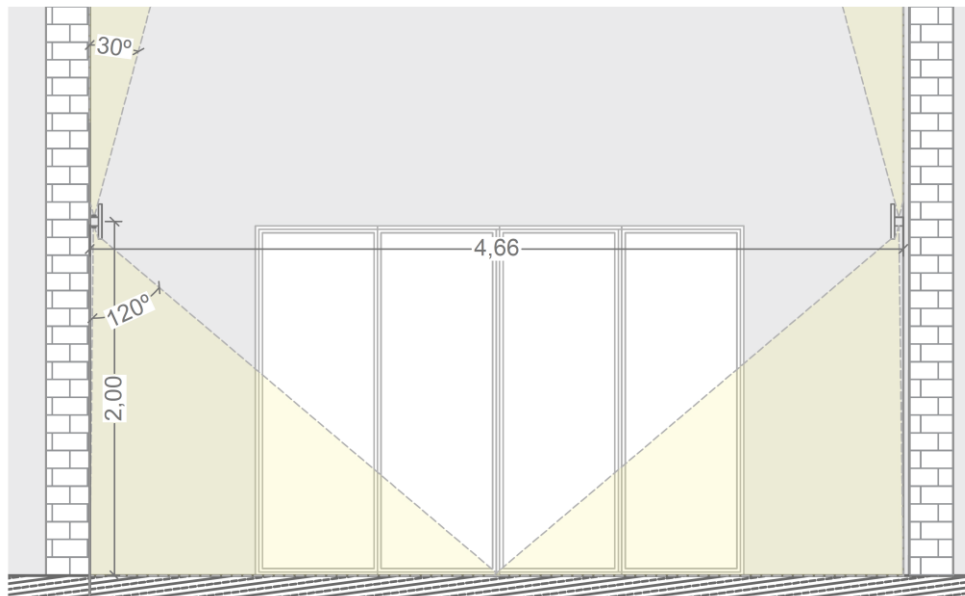
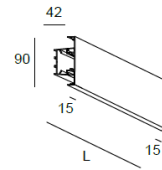
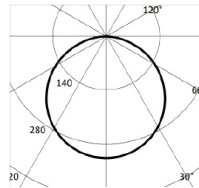
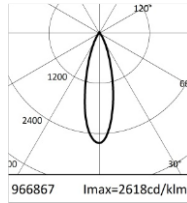
INTERVENTION AREA ACCESS

GRADIENT



LIGHTING REFERENCES

L07 LED Strip 24V
19,2W/ml 1710lm/m 3000k Optica 30°
9.6 W/m, 900 lm/m, 120° 3000k



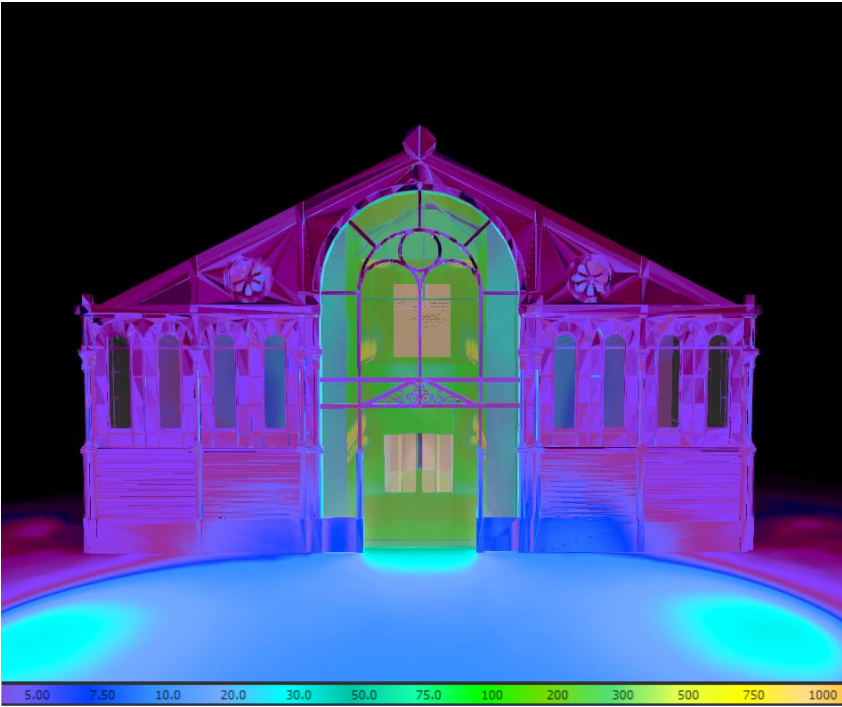
INTERVENTION AREA

ACCESS



LIGHTING PLAN

LIGHTING RESULTS

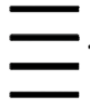


Propiedades	E	E _{min}	E _{máx}	U _o (g ₁)	g ₂	Índice
Superficie de cálculo 4 Iluminancia perpendicular Altura: 0.100 m	170 lx	132 lx	195 lx	0.78	0.68	CG2

Perfil de uso: Configuración DIALux predeterminada (5.1.4 Estándar (área de tránsito al aire libre))

LIGHTING METHODS

INTERVENTION AREA ACCESS PLAZA



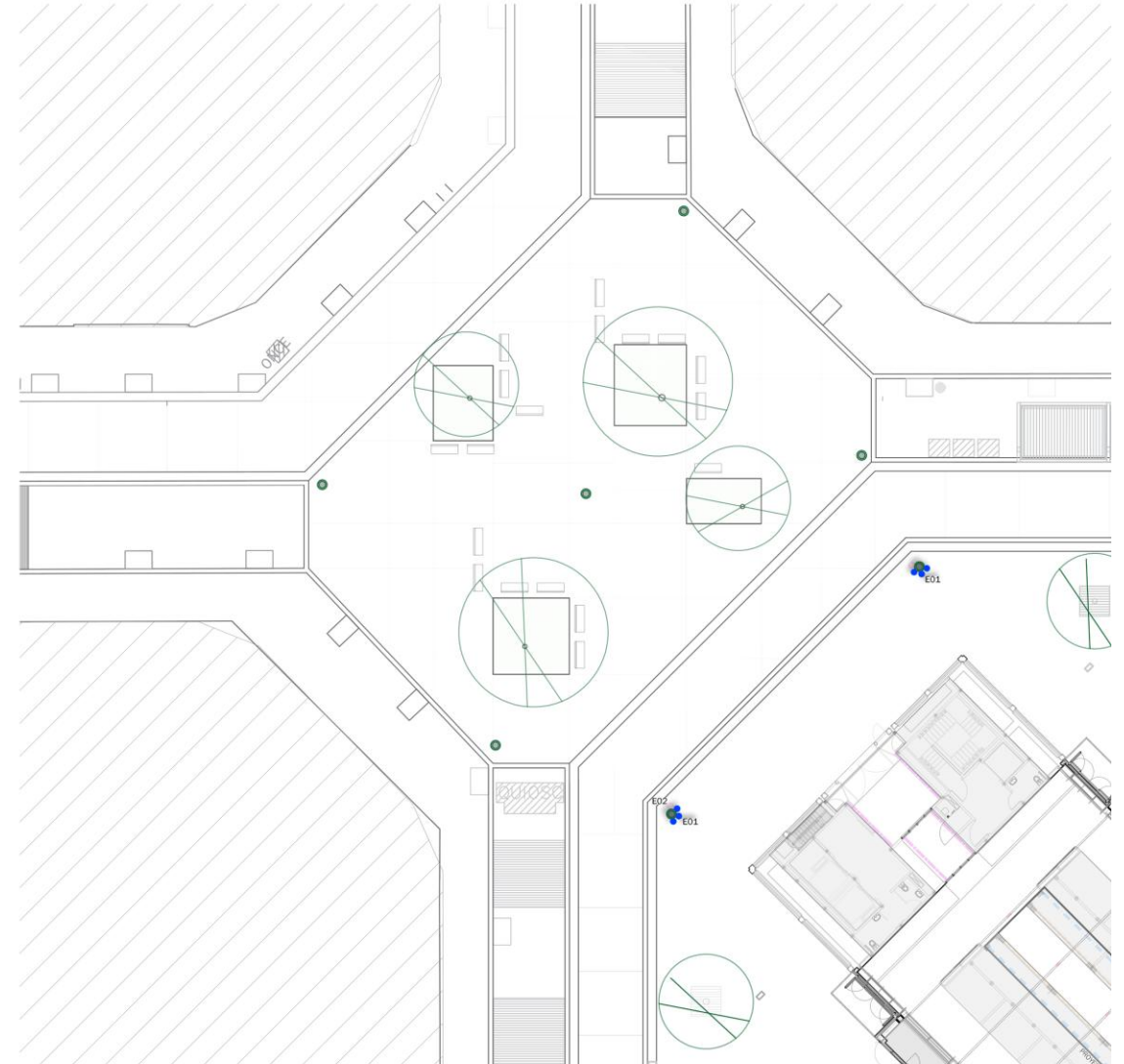
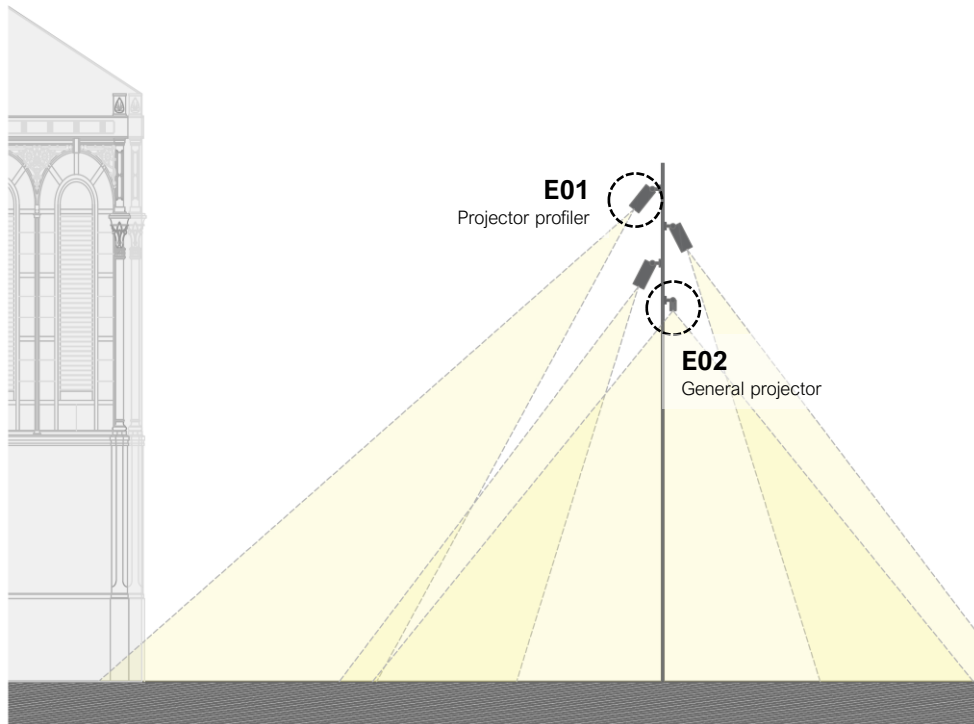
ATTRACTION

Living movement that draws you in and opens the way to discover the market.



LIGHTING PLAN

INTERVENTION AREA ACCESS PLAZA



LIGHTING PLAN

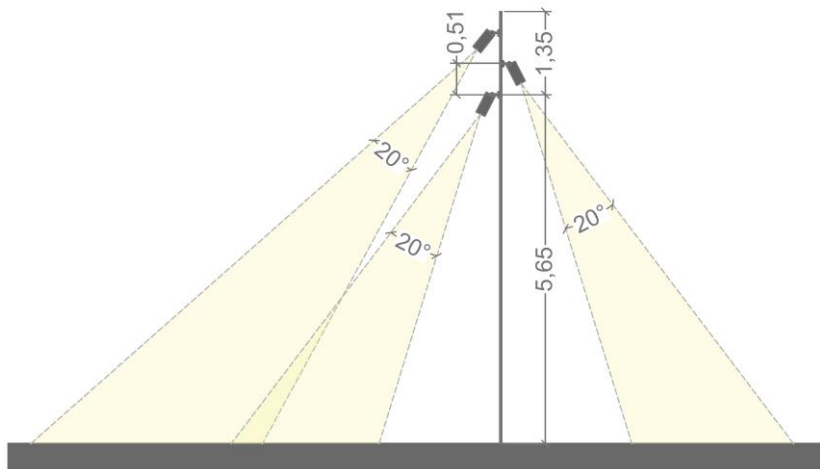
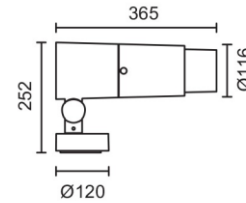
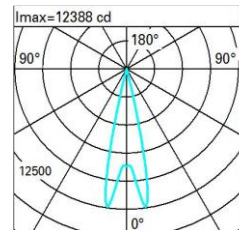
INTERVENTION AREA ACCESS PLAZA

DYNAMIC



LIGHTING REFERENCES

E01 Projector surface profiler IP66 –
35W 4150lm 3000k



LIGHTING PLAN

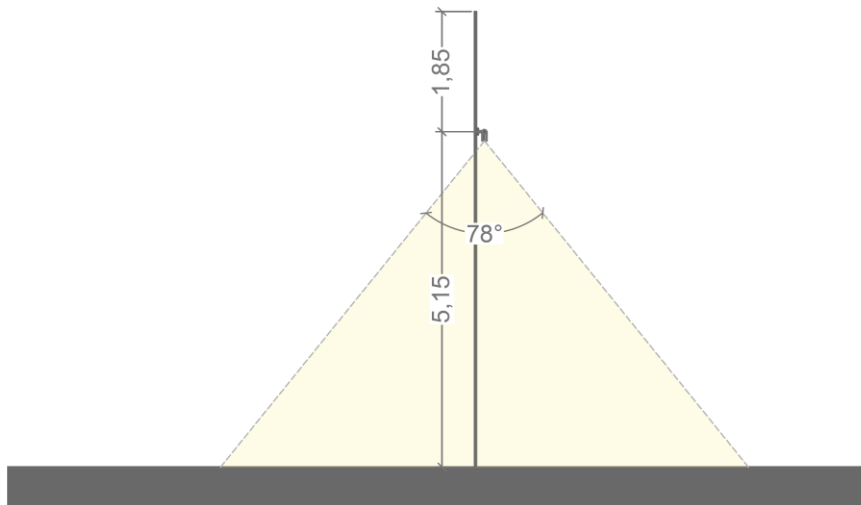
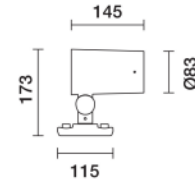
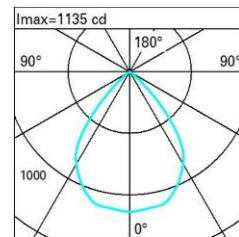
INTERVENTION AREA ACCESS PLAZA

LANDSCAPE



LIGHTING REFERENCES

E02 Projector surface General light IP66 –
35W 4150lm 3000k

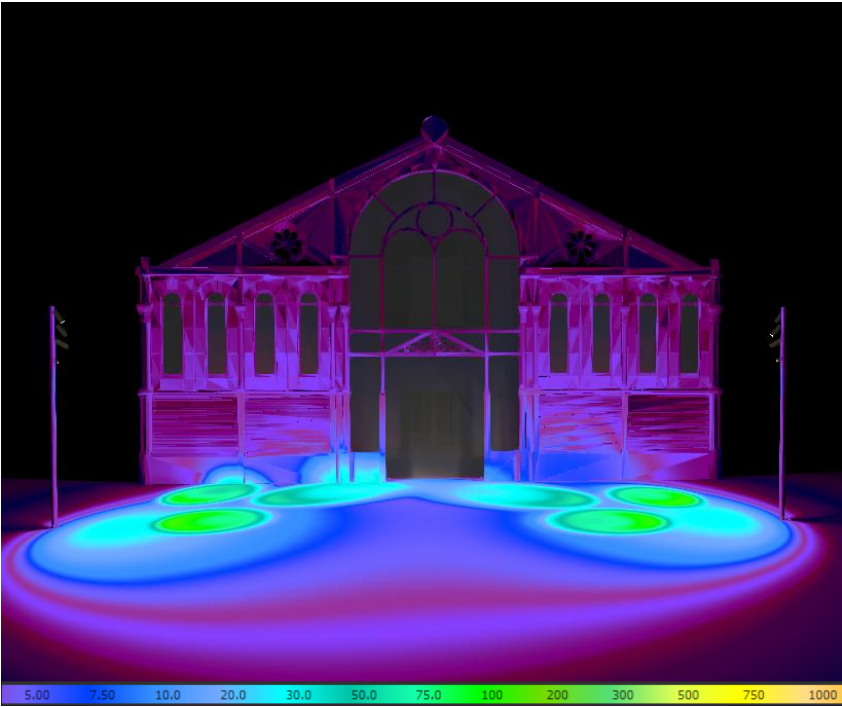


LIGHTING PLAN

INTERVENTION AREA
ACCESS PLAZA



LIGHTING RESULTS



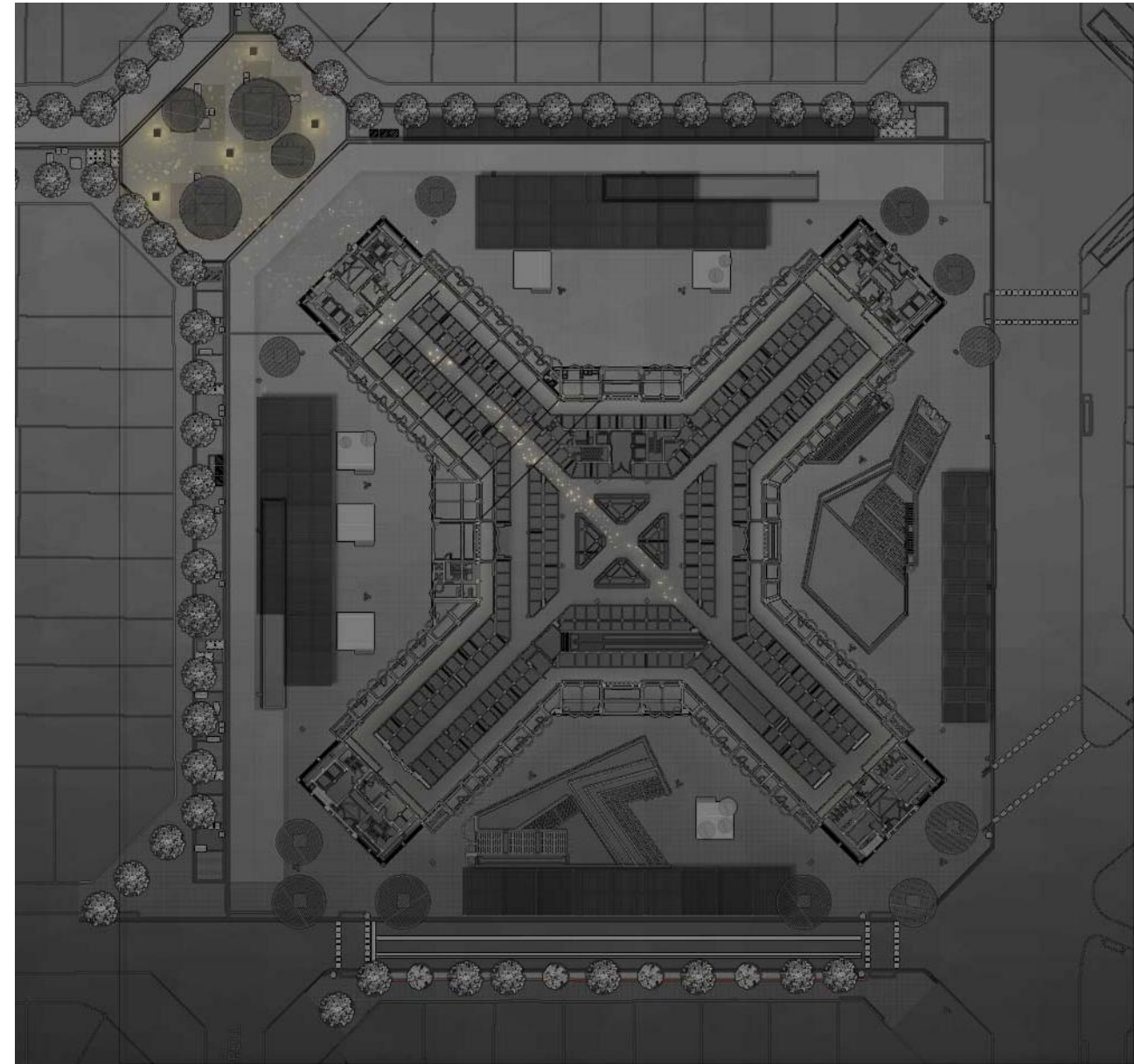
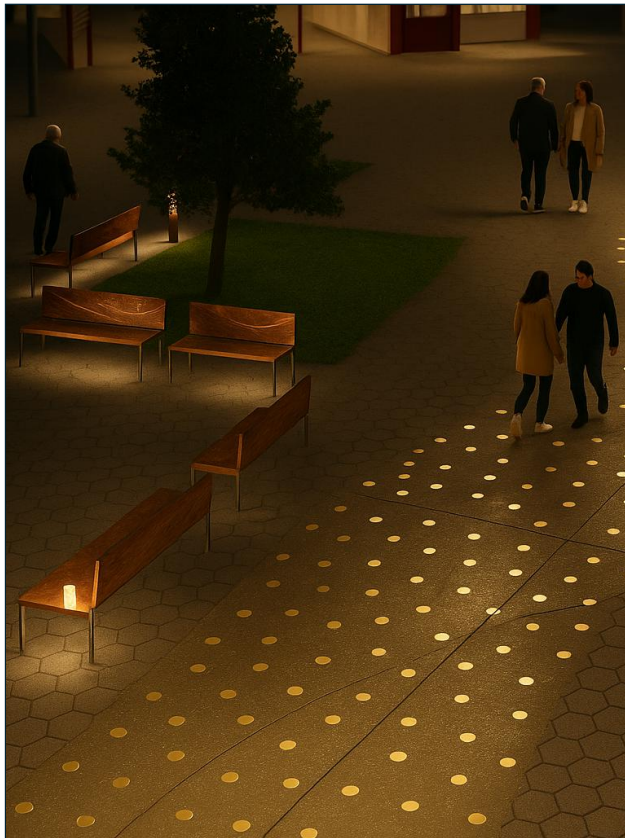
Propiedades	E	E _{min}	E _{max}	U _o (g ₁)	g ₂	Índice
Superficie de cálculo 6 Iluminancia perpendicular Altura: 0.000 m	7.59 lx	5.72 lx	31.6 lx	0.75	0.18	CG4

INTERVENTION AREA OUTDOOR PLAZA

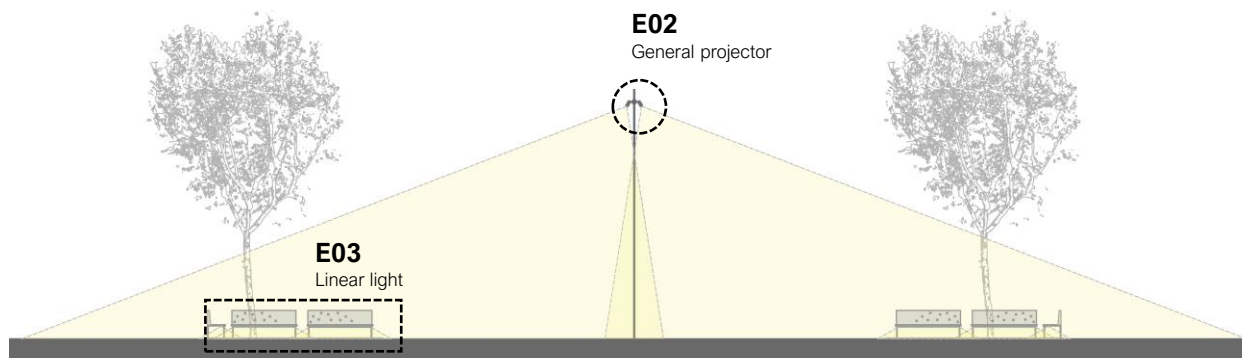


EXCHANGE

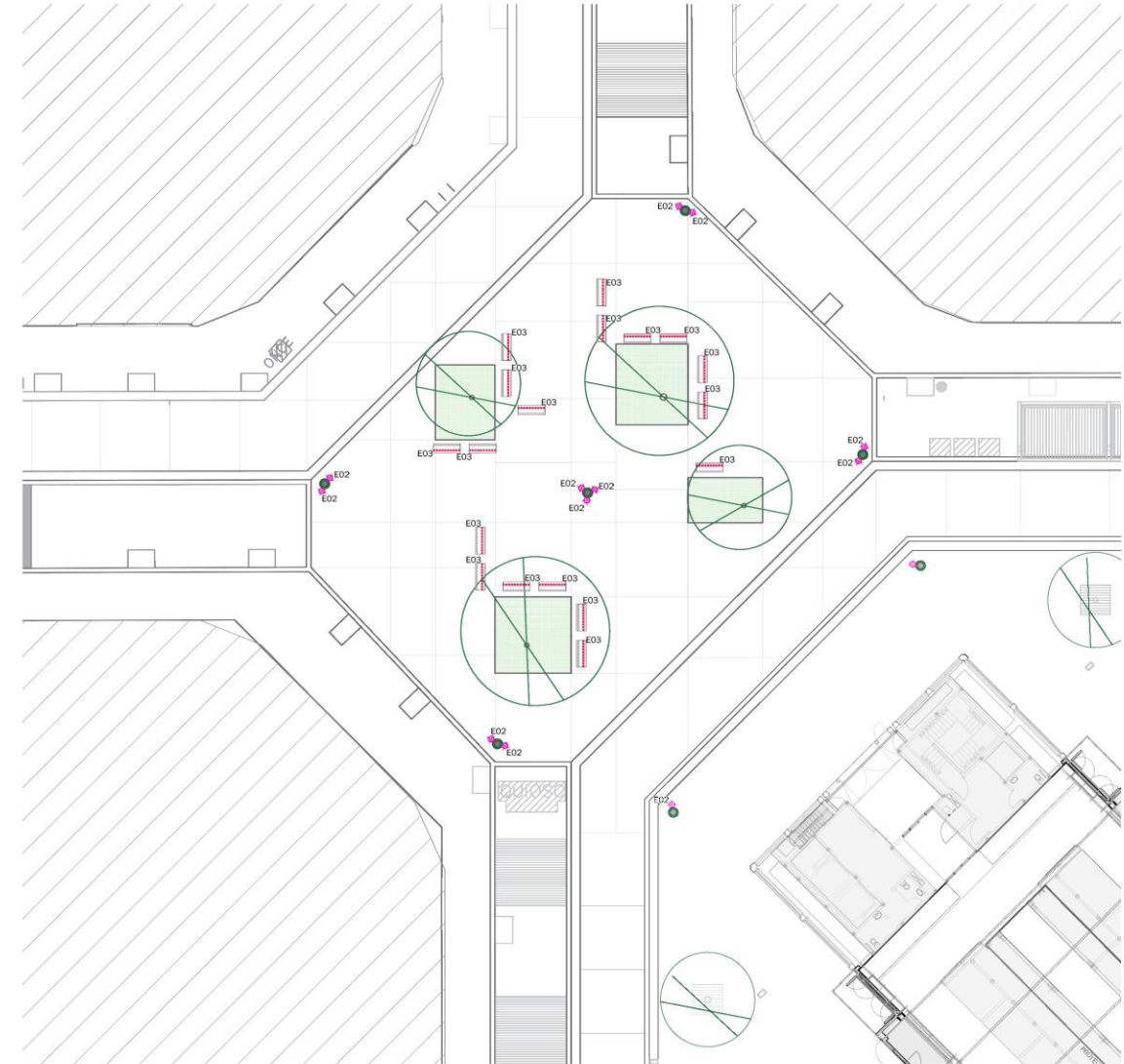
They mark the path and create an environment conducive to pause, encounter, and exchange.



INTERVENTION AREA
OUTDOOR PLAZA



LIGHTING PLAN



LIGHTING PLAN

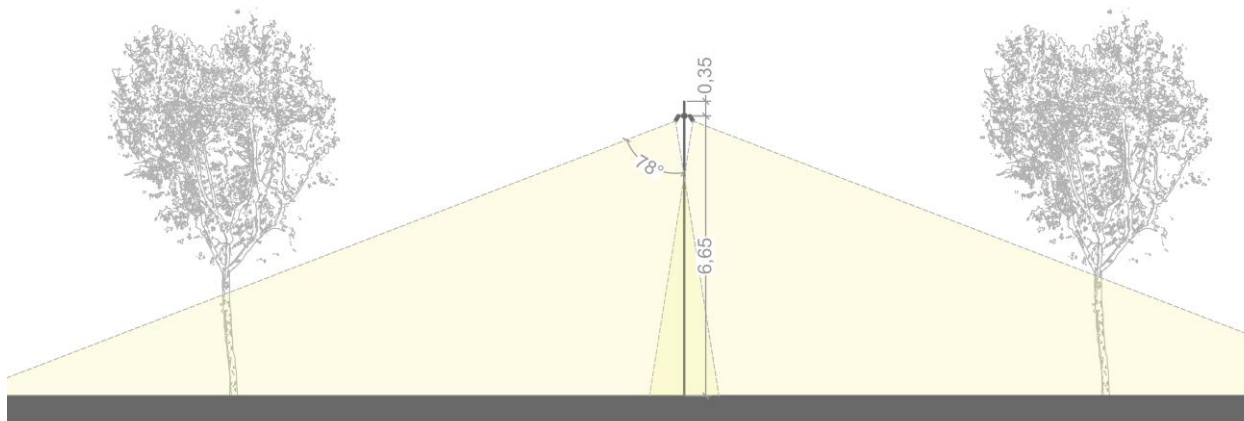
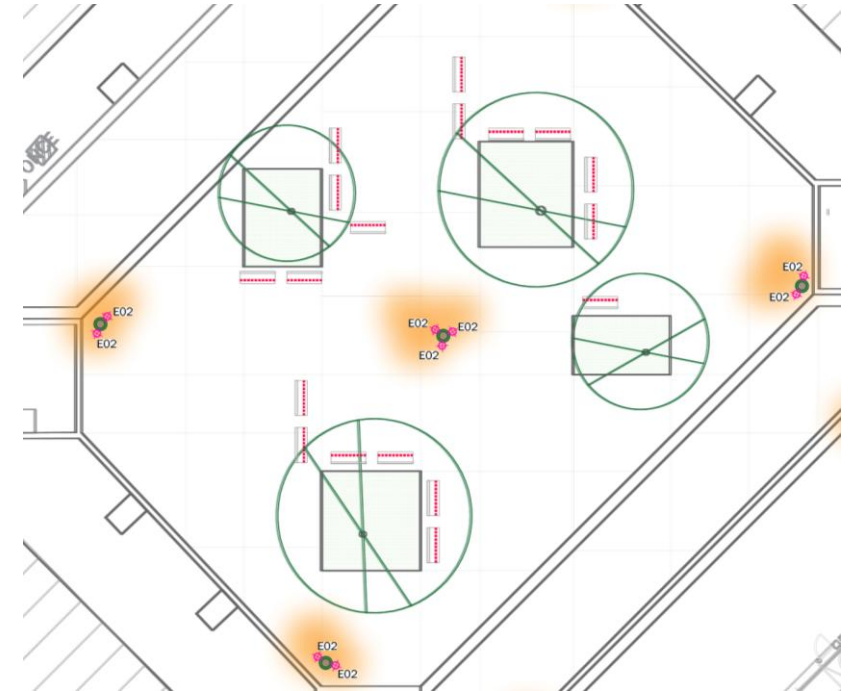
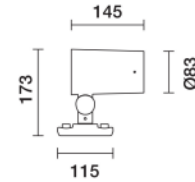
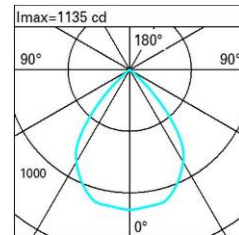
INTERVENTION AREA OUTDOOR PLAZA

LANDSCAPE



LIGHTING REFERENCES

E02 Projector surface General light IP66 –
35W 4150lm 3000k



LIGHTING PLAN

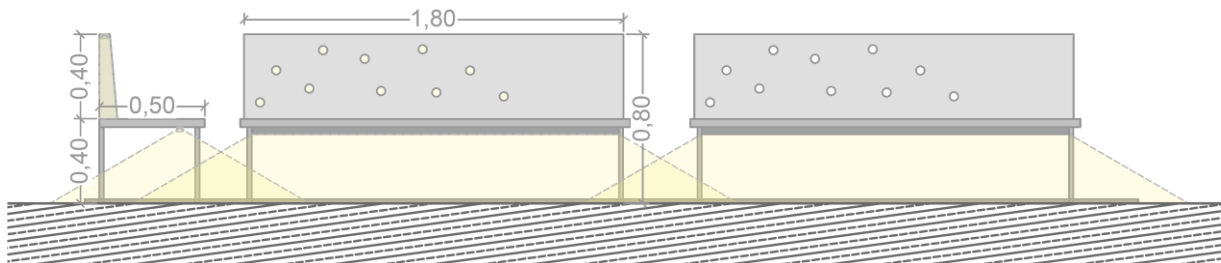
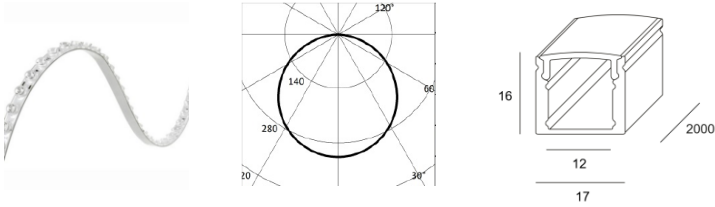
INTERVENTION AREA OUTDOOR PLAZA

GRAZING



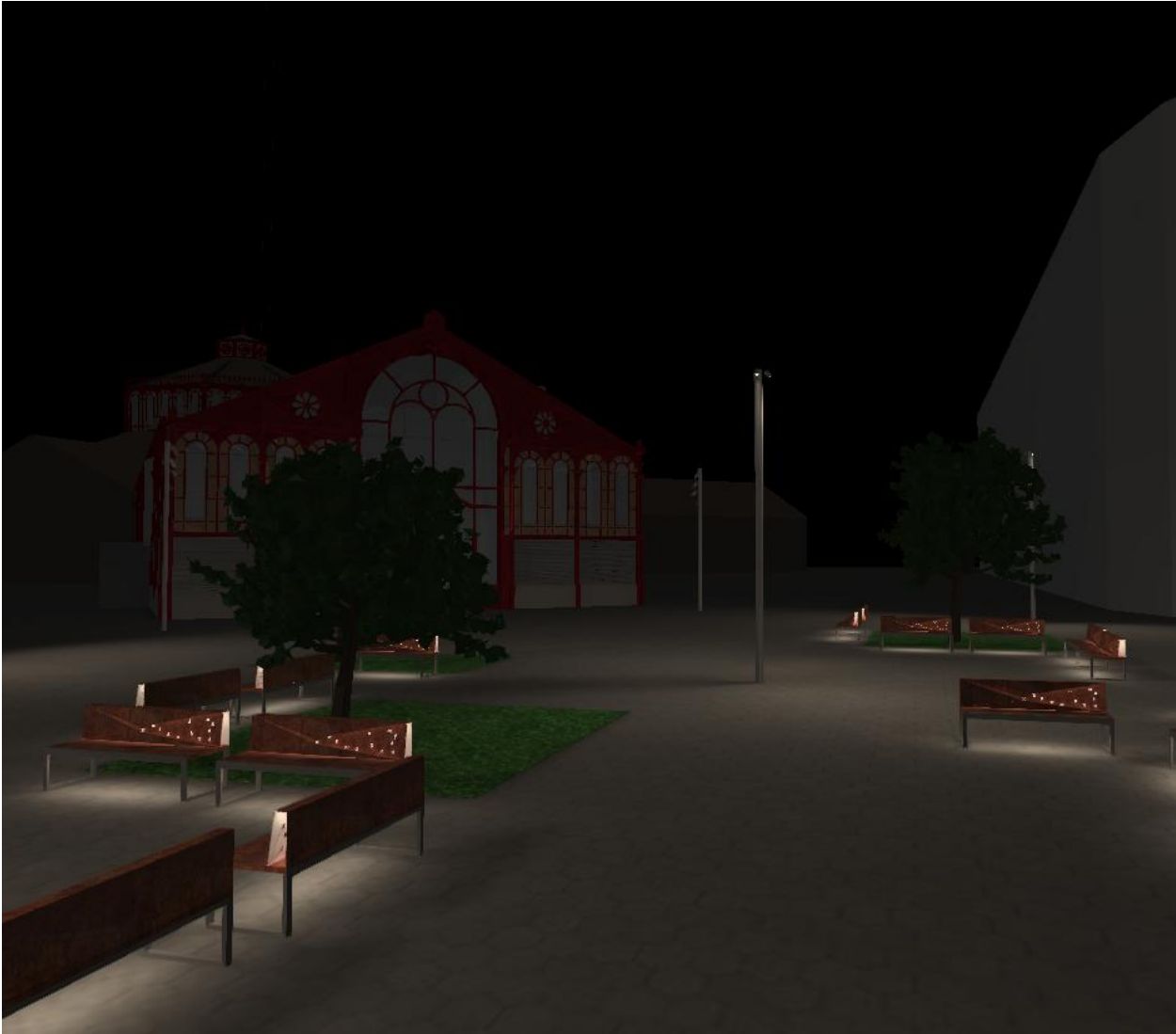
LIGHTING REFERENCES

E03 LED Strip 24V
9.6 W/m, 900 lm/m, 120° 3000k



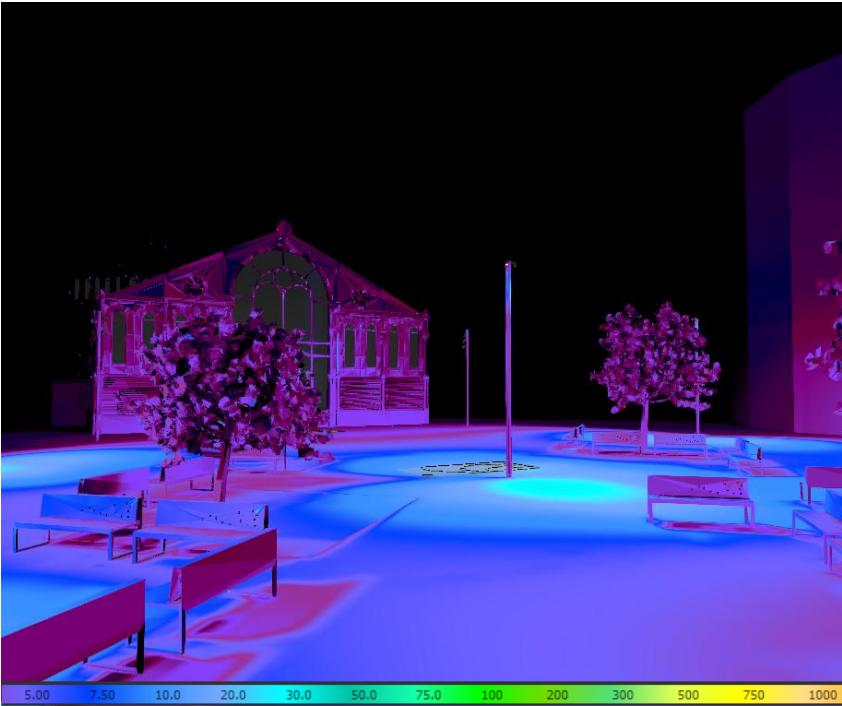
INTERVENTION AREA

OUTDOOR PLAZA



LIGHTING PLAN

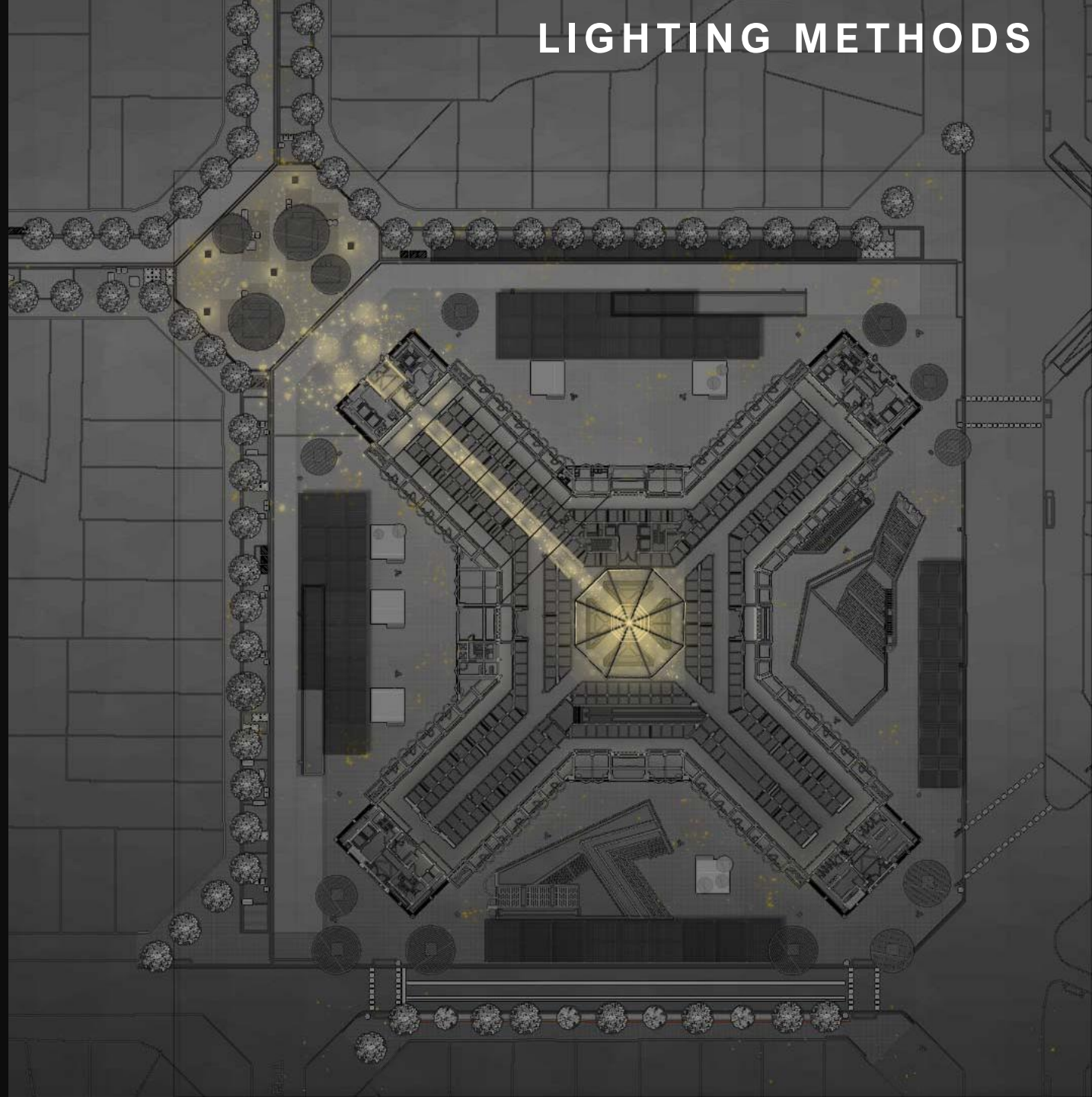
LIGHTING RESULTS



Propiedades	E	E _{min}	E _{max}	U _o (g ₁)	g ₂	Índice
Superficie de cálculo 5 Iluminancia perpendicular Altura: 0.000 m	16.9 lx	9.51 lx	23.5 lx	0.56	0.40	CG3

INTERVENTION AREA

LIGHTING METHODS











KINETISM

Movement made light, reconnecting
and highlighting the market's identity.