



PORTO CERVO LIFESTYLE HOTEL

SARDINIA, ITALY

Mock Up Room

September 2024



Consultant / **BRE engineering**
Voltaire Lighting Design

Owner / **SmeraldaHolding**

MOCK UP ROOM



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SmeraldaHolding

The interior lighting concept employs a **layered approach** to illuminate and accentuate the design language of the hotel rooms.

architectural lighting accentuates decorative elements and architectural features to add depth and visual appeal to the space,

ambient lighting serves as the primary source of general illumination,

accent lighting highlights specific areas or features within the room, creating contrast and visual interest,

integrated lighting blends seamlessly into the architectural features or furnishings offering a subtle and discreet illumination,

decorative lighting adds curated design elements, enhancing the ambiance and visual appeal of the space.

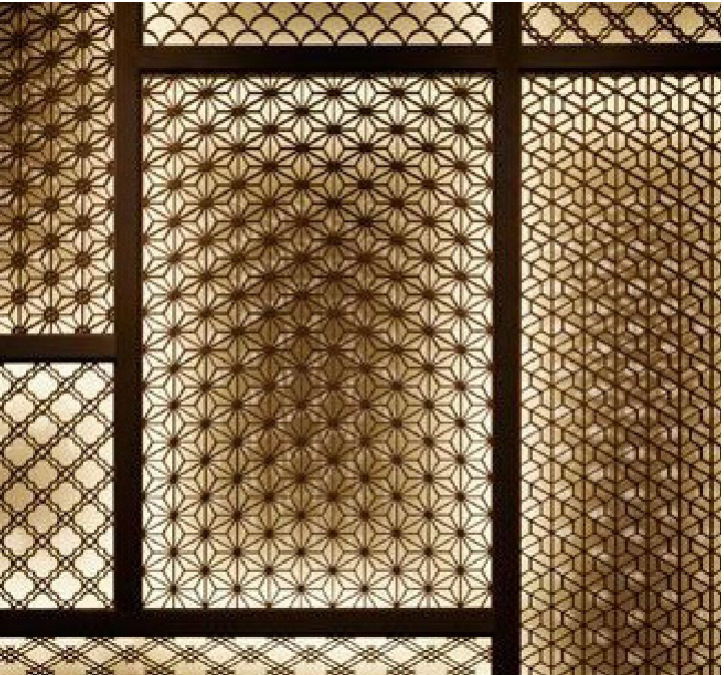
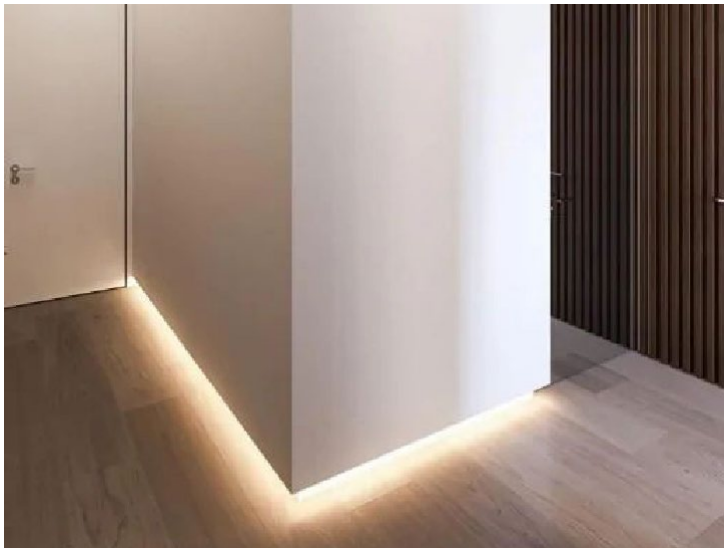


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MOOD BOARD (TECHNICAL LIGHTING)



ARCHITECTURAL LIGHTING

AMBIENT LIGHTING

ACCENT LIGHTING

INTEGRATED LIGHTING

MOOD BOARD (DECORATIVE LIGHTING)



TABLE LAMP – Millelumen Aleve lamp



BEDSIDE LAMP – Cerasarda Stelo lampada



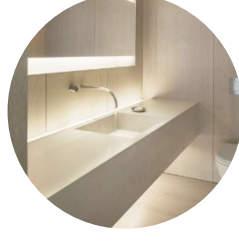
BEDSIDE READING LAMP – Marset Ledtube

LIGHTING LAYOUT

- 

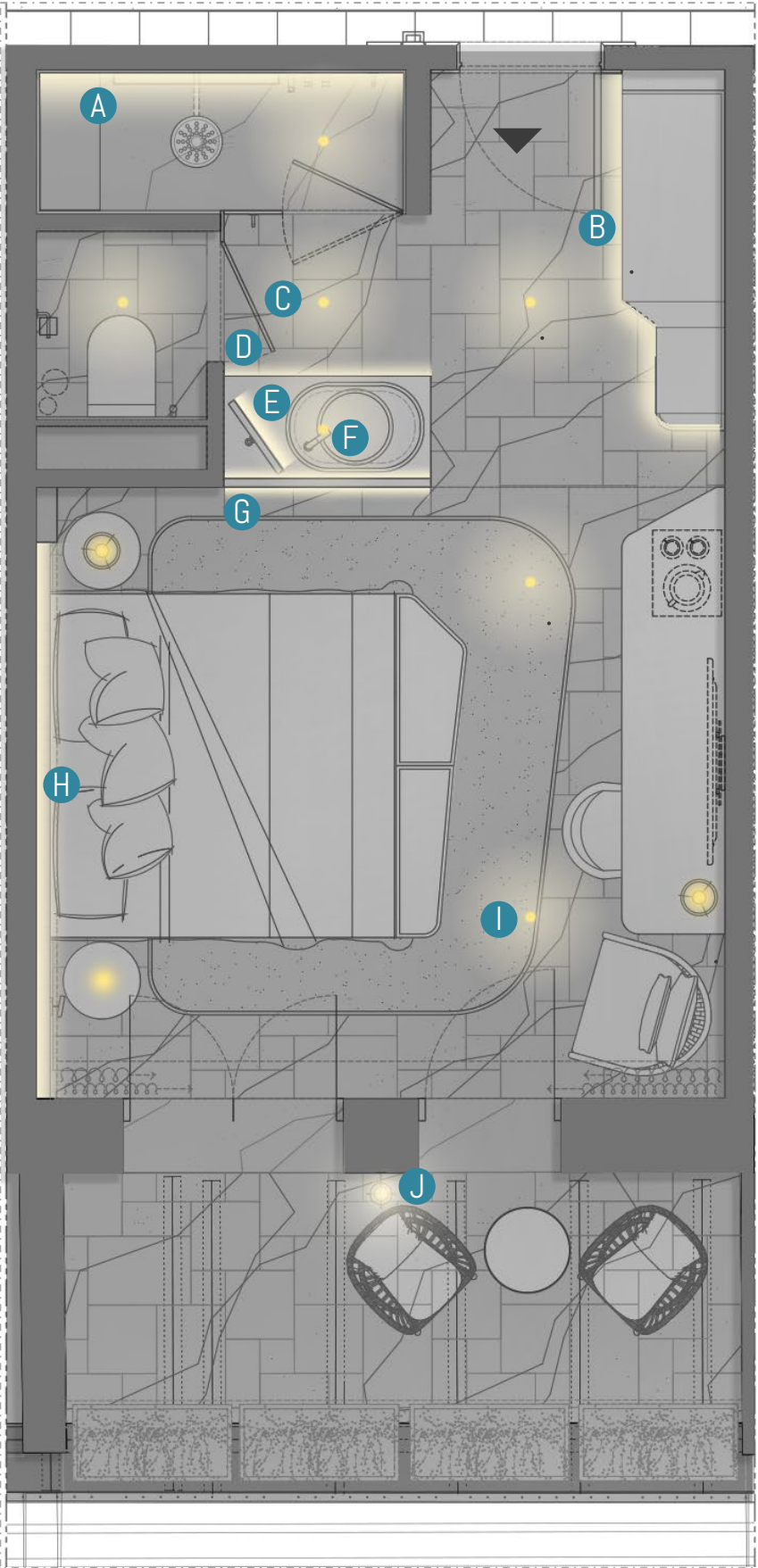
A Cove light in the shower
- 

B Skirting light below the wardrobe
- 

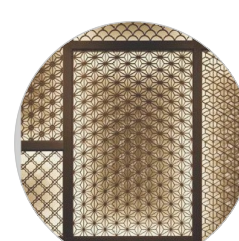
C Deep recessed downlight
- 

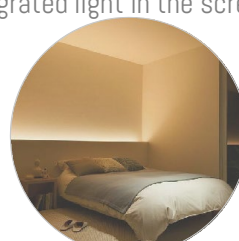
D Integrated light under vanity
- 

E Integrated light in the mirror



- 

F Accent light on the vanity
- 

G Integrated light in the screen panel
- 

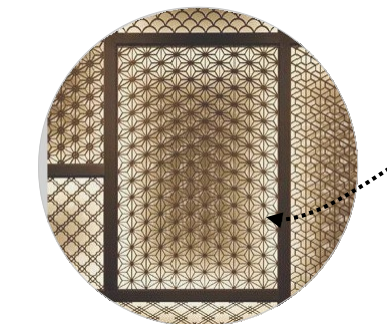
H Integrated light in the headboard
- 

I Surface mounted adjustable projector
- 

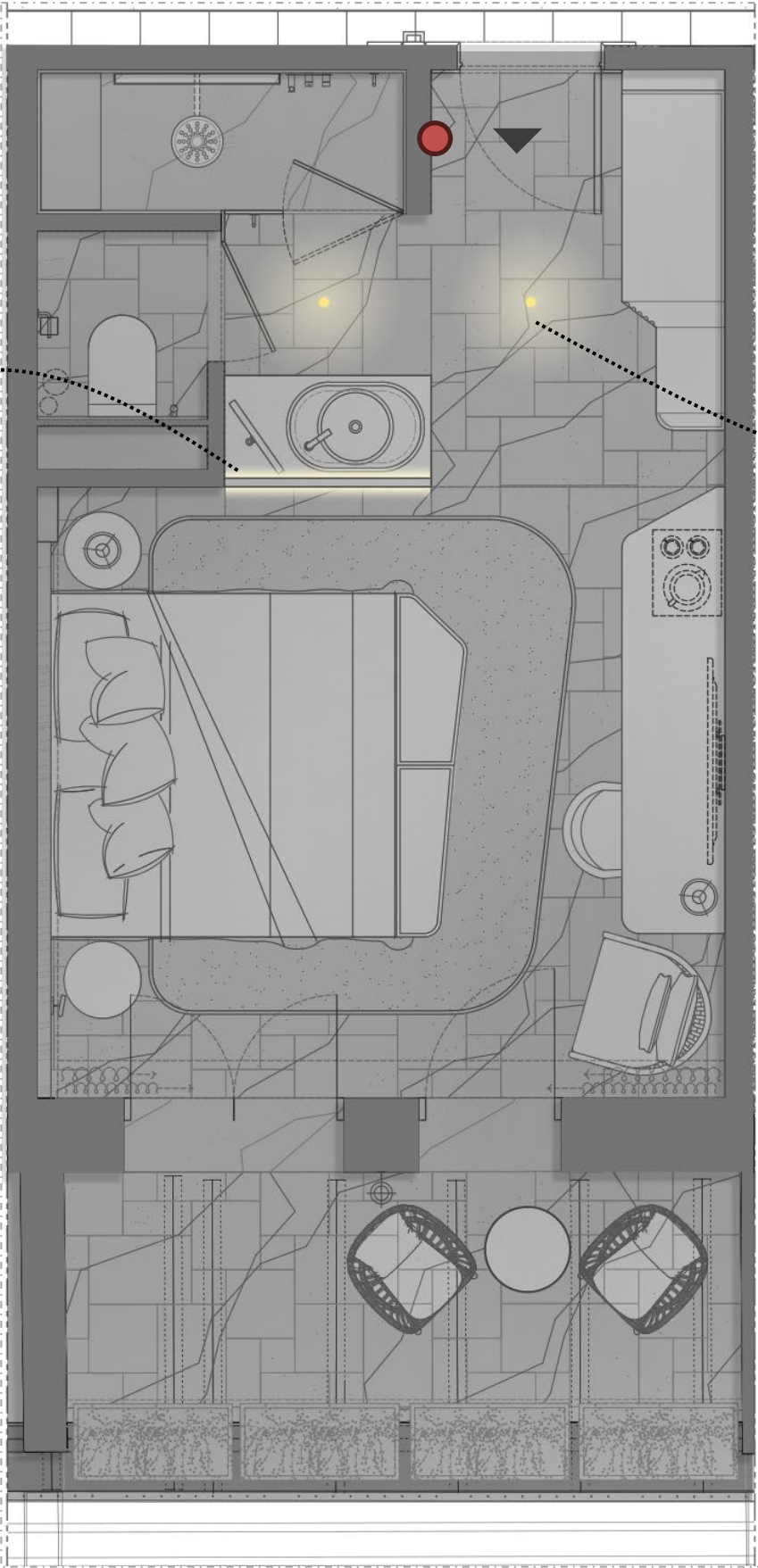
J Existing external light



LIGHTING SCENE: ENTRANCE
2: DOWNLIGHT + SCREEN



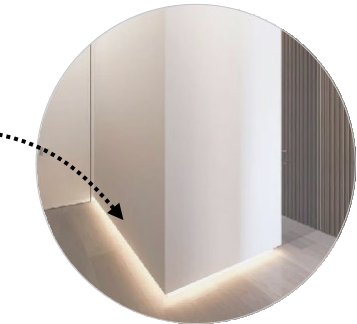
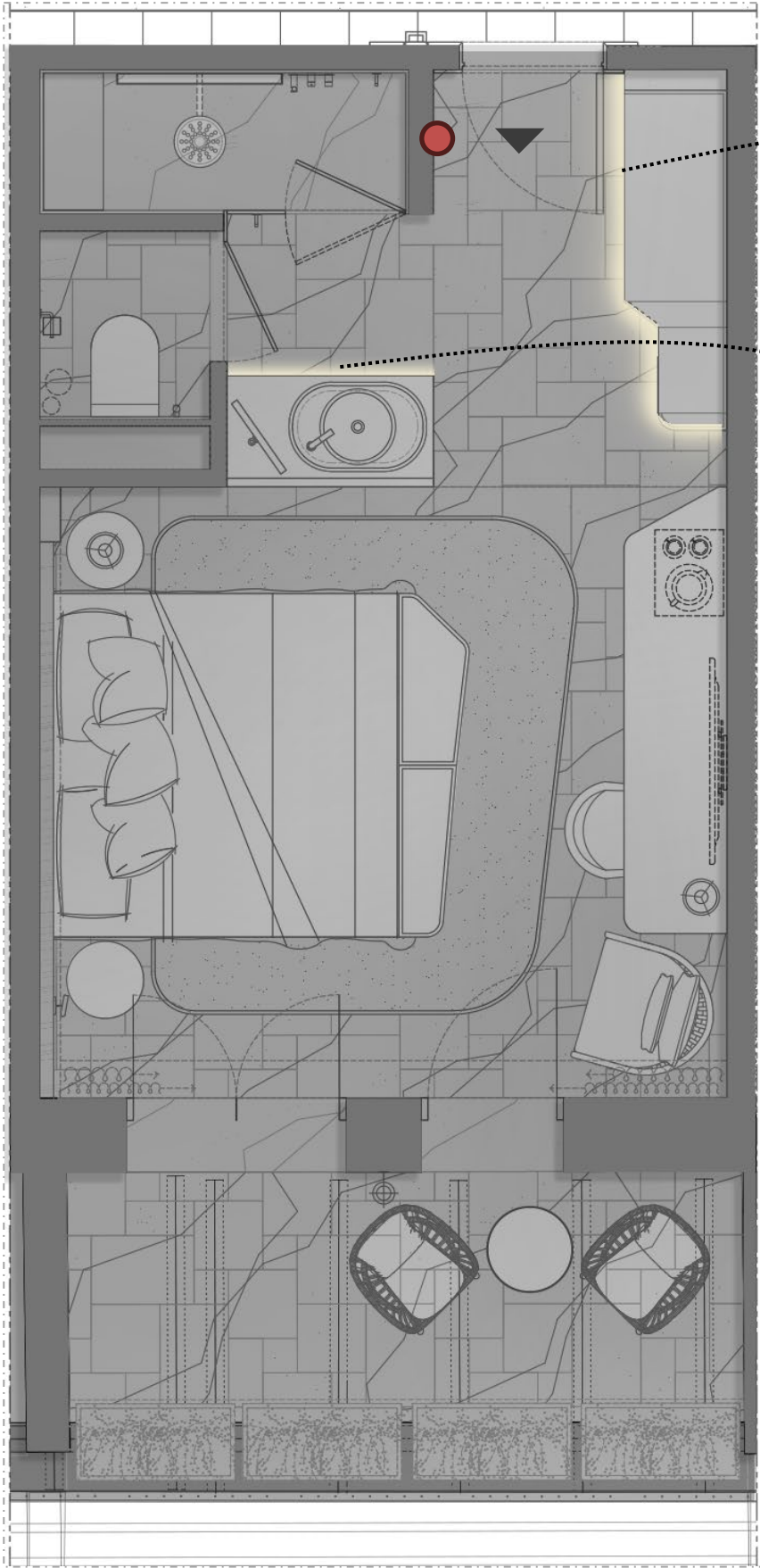
Integrated light in the screen panel



Deep recessed downlight

● SWITCH LOCATION

LIGHTING SCENE: ENTRANCE
3: NIGHT SCENE



Skirting light below the wardrobe

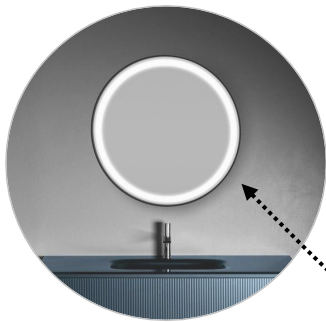


Integrated light under vanity

● SWITCH LOCATION



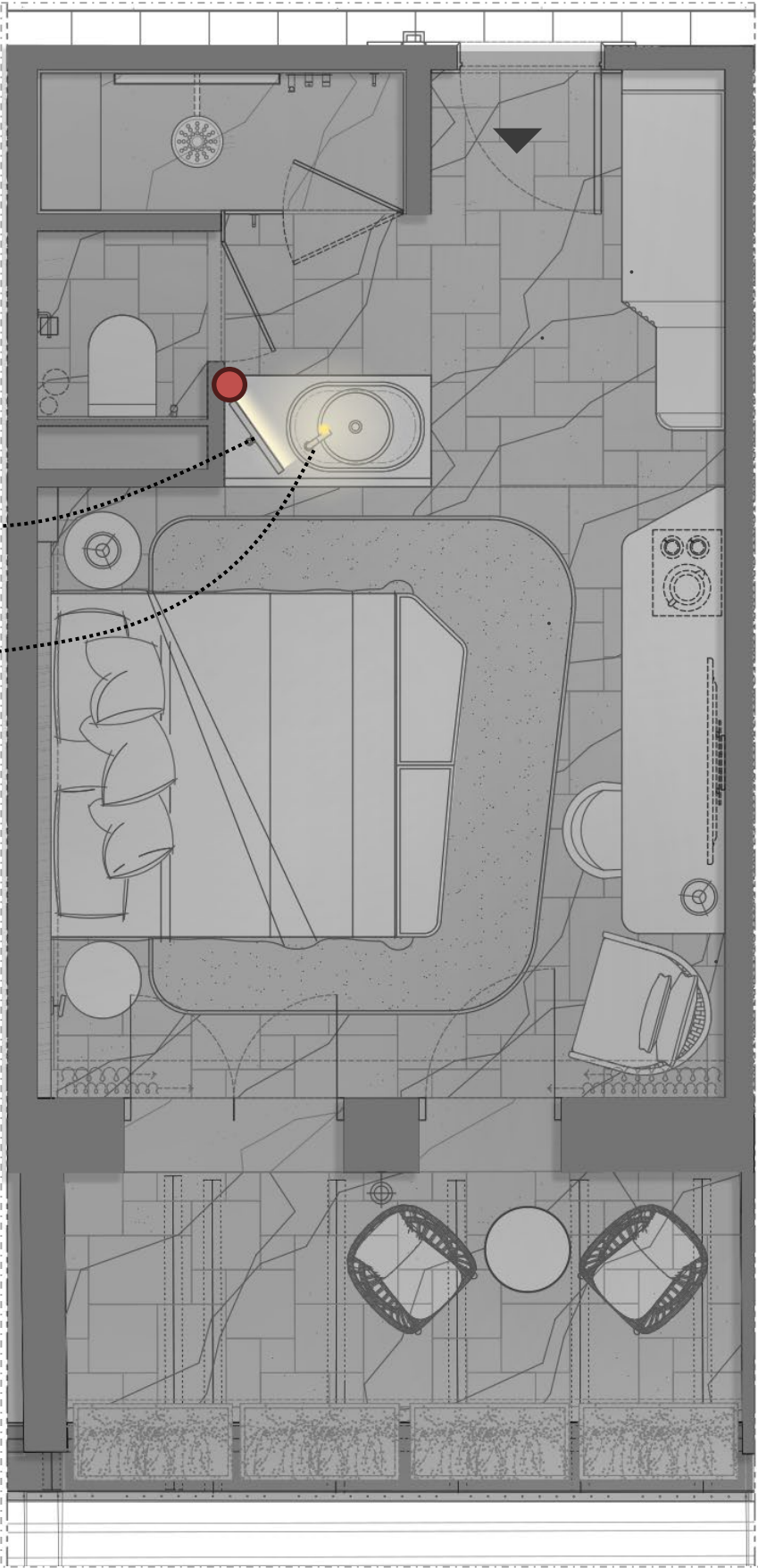
LIGHTING SCENE: BATHROOM
1: MIRROR + ACCENT LIGHT



Integrated light in the mirror



Accent light on the vanity



● SWITCH LOCATION

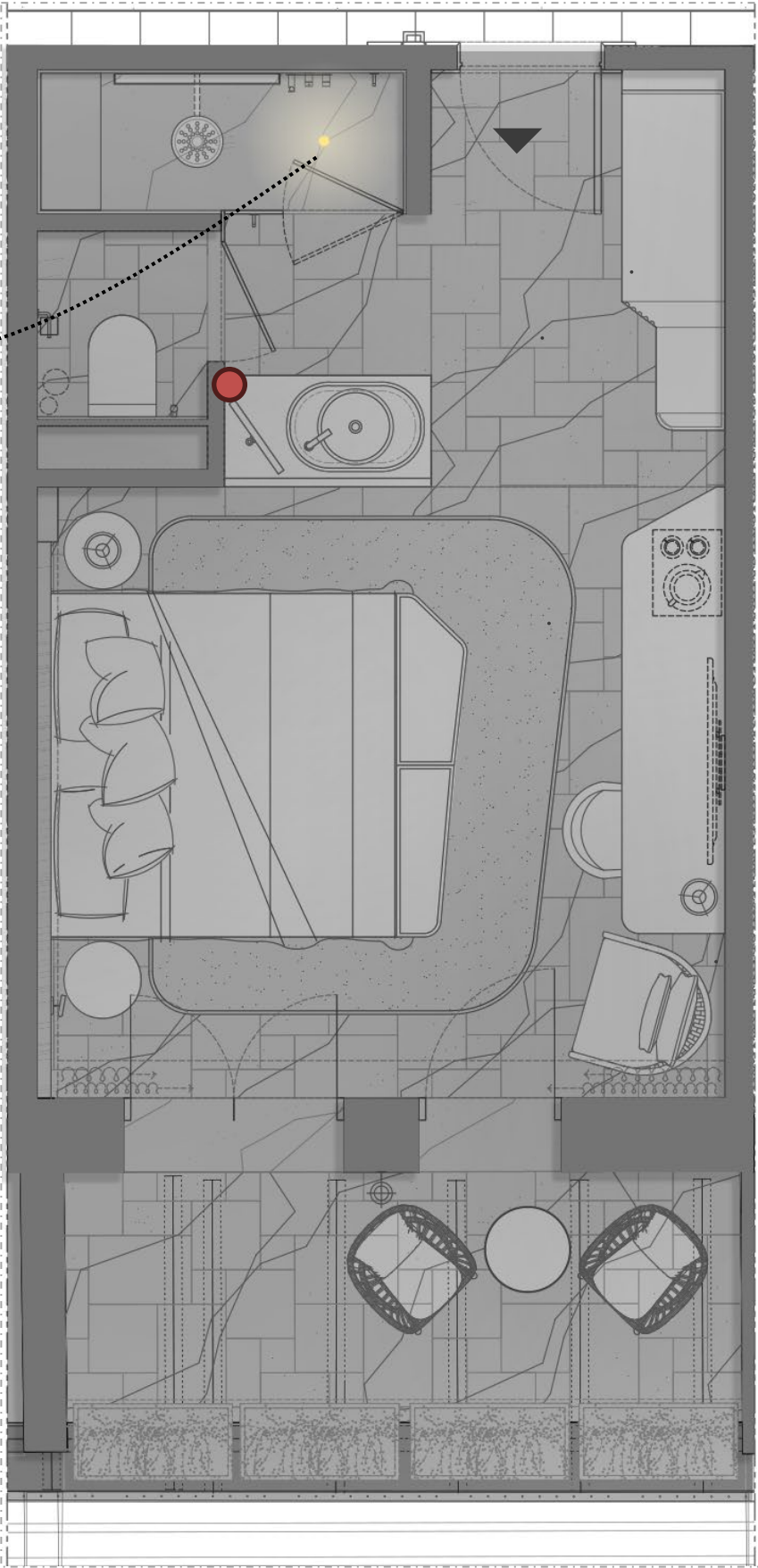


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LIGHTING SCENE: BATHROOM
2: DOWNLIGHTS IN THE SHOWER



Deep recessed downlight
IP rated



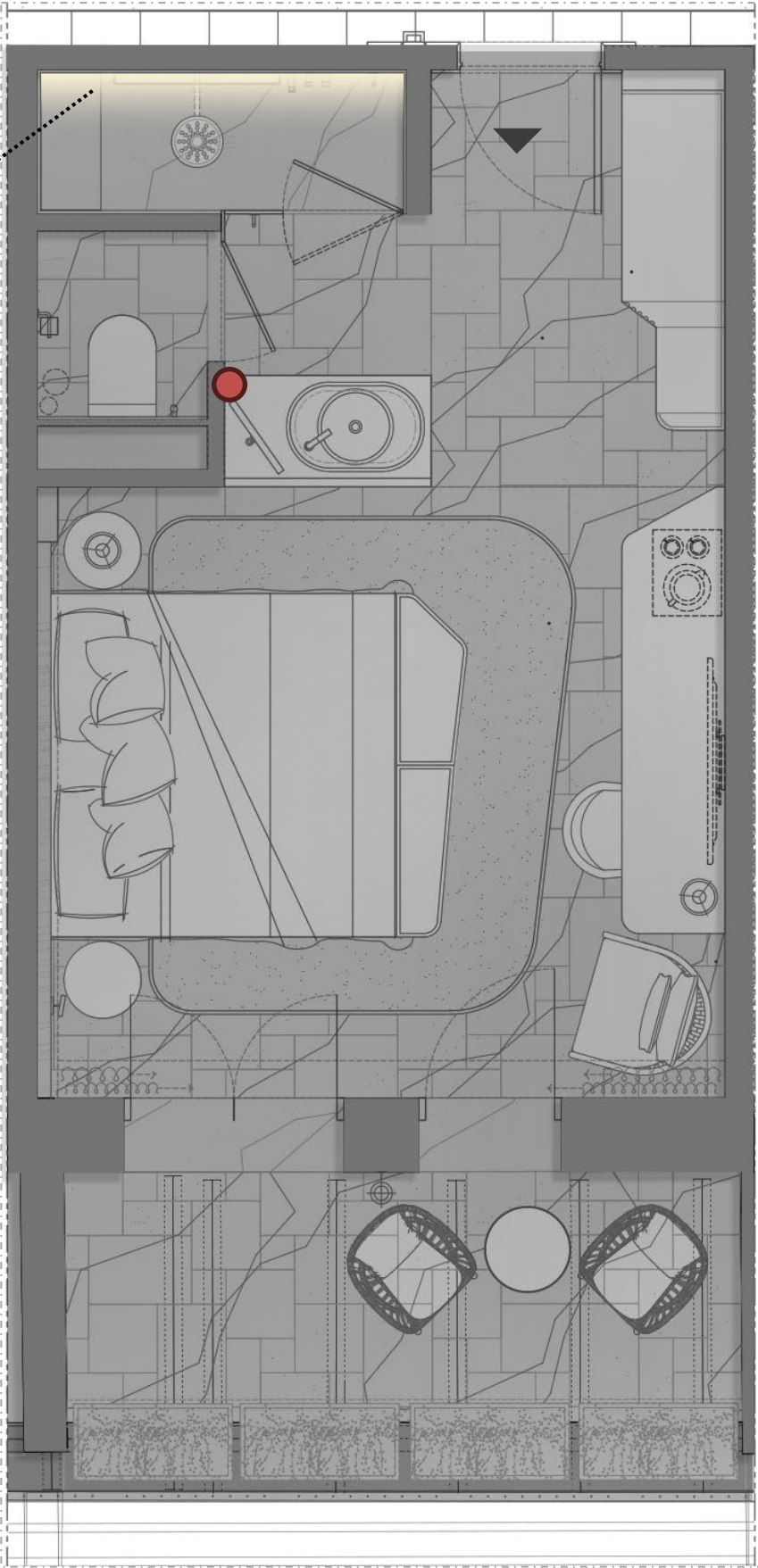
● SWITCH LOCATION



LIGHTING SCENE: BATHROOM
3: COVELIGHT IN THE SHOWER



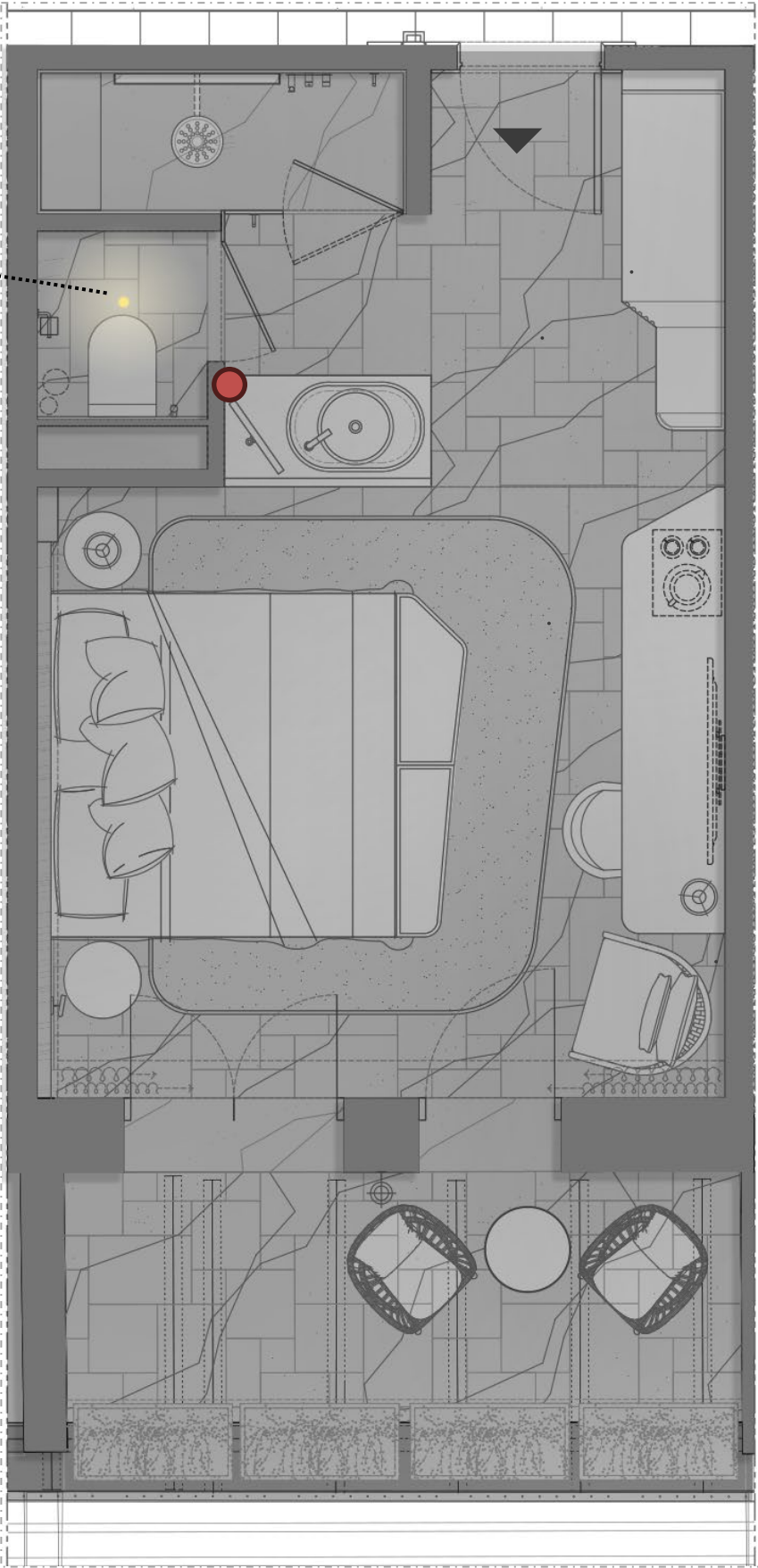
Cove light in the shower



● SWITCH LOCATION



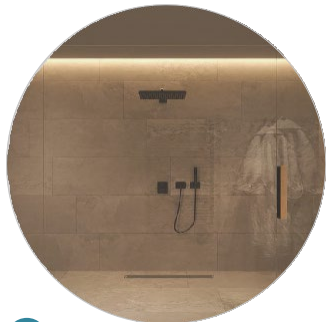
LIGHTING SCENE: BATHROOM
4: DOWNLIGHT IN THE TOILET



● SWITCH LOCATION



LIGHTING SCENE: ENTRANCE + BATHROOM



A Cove light in the shower



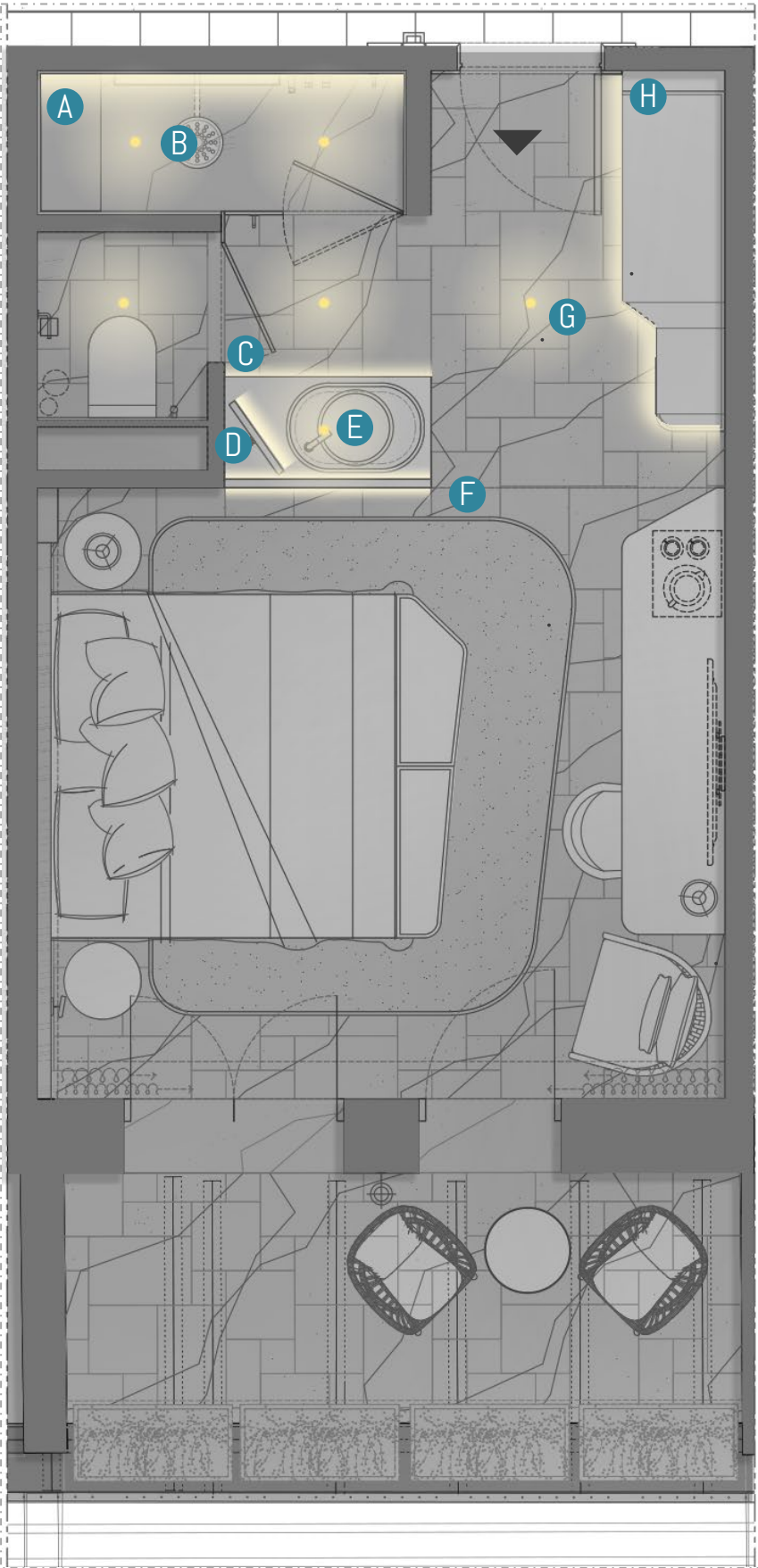
B Deep recessed downlight
IP rated



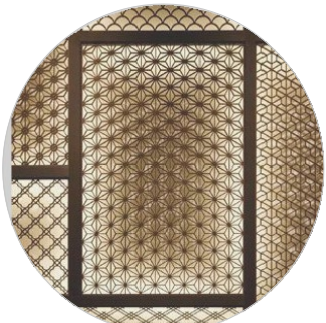
C Integrated light under vanity



D Integrated light in the mirror



E Accent light on the vanity



F Integrated light in the screen panel



G Deep recessed downlight

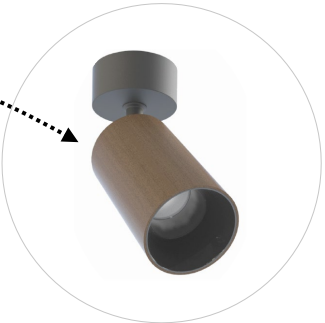
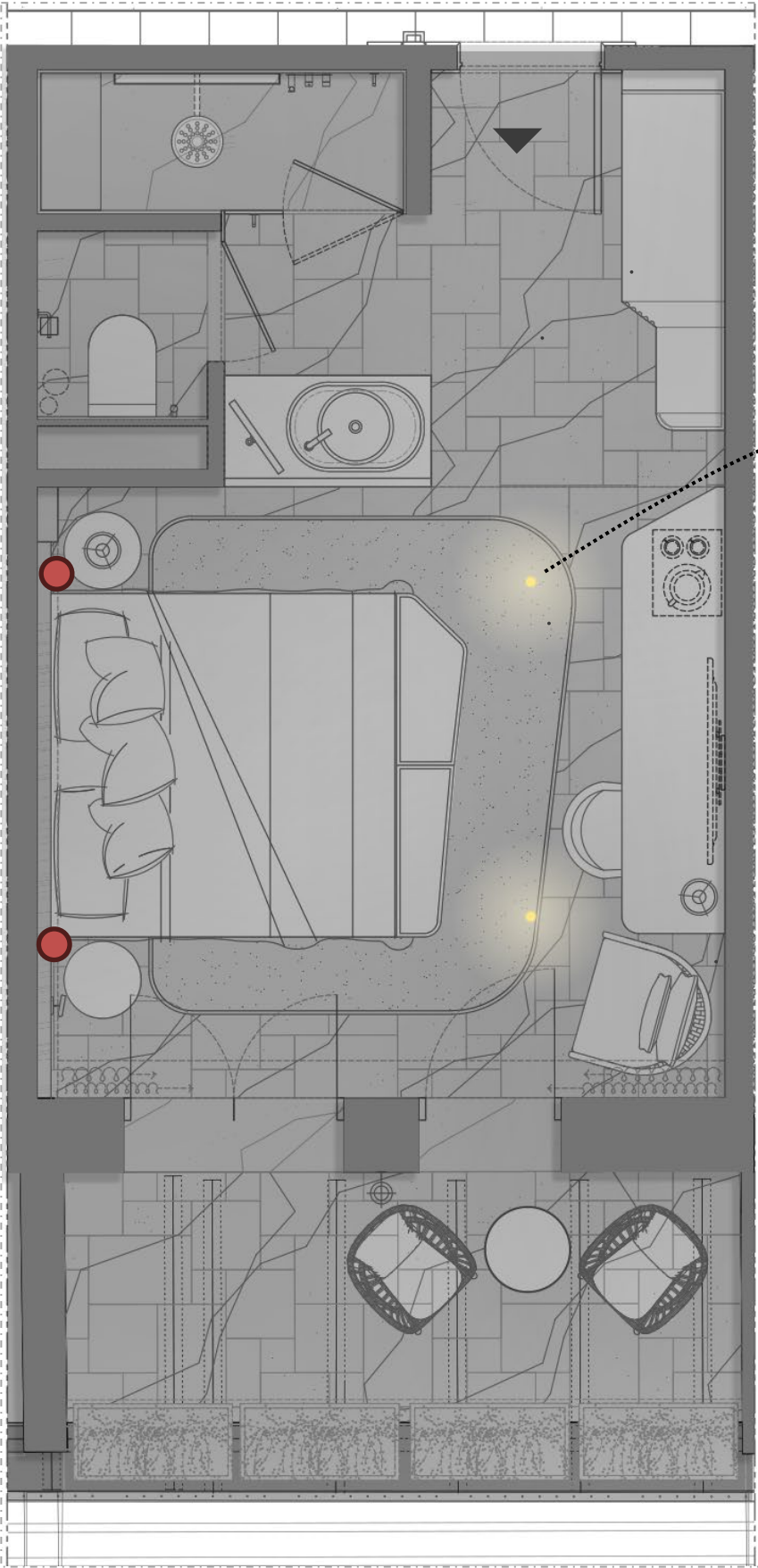


H Skirting light below the wardrobe



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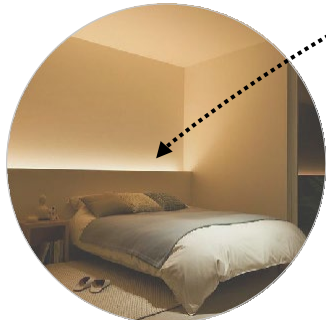
LIGHTING SCENE: BEDROOM
1: PROJECTORS



Surface mounted adjustable projector

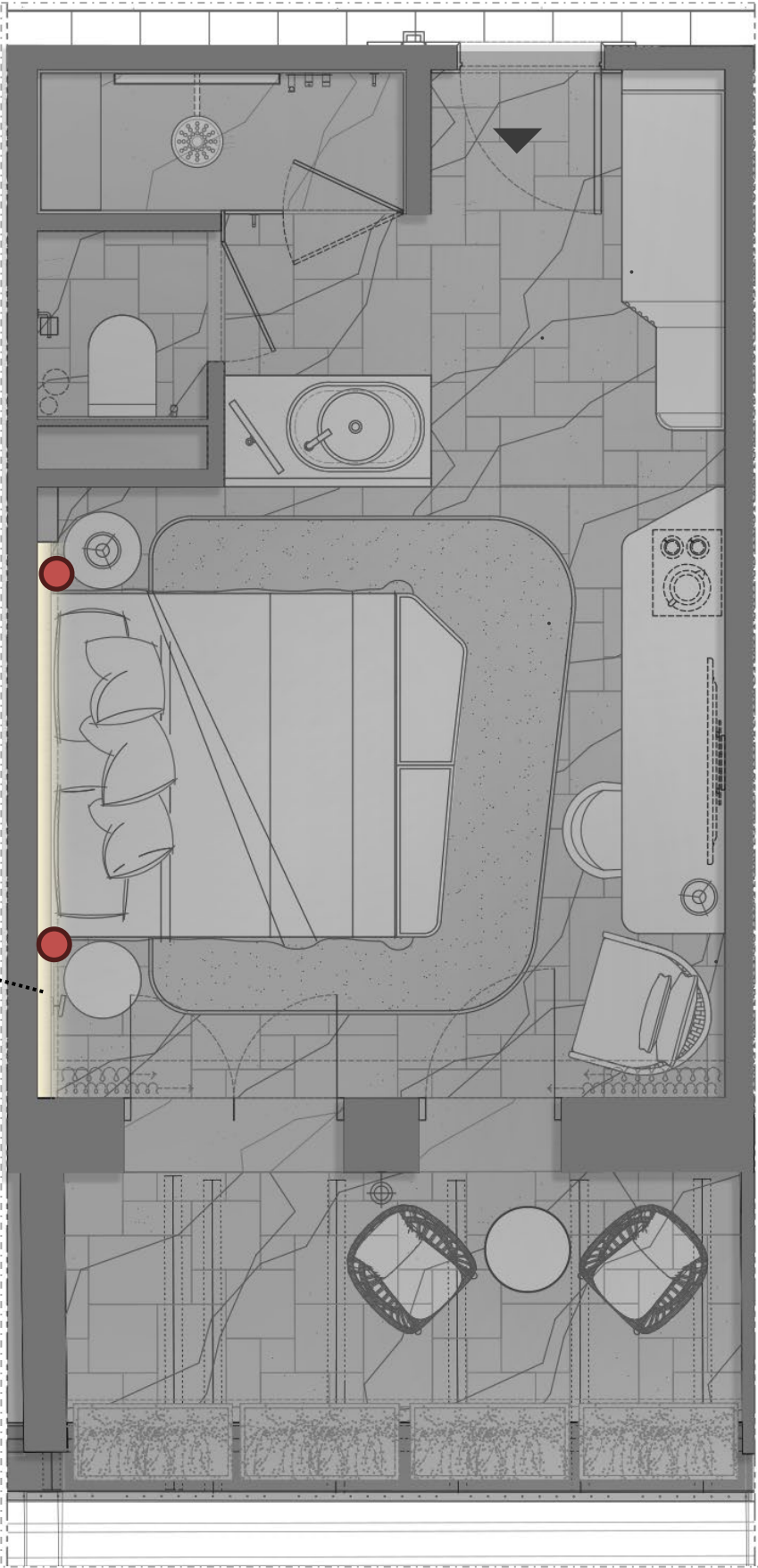
● SWITCH LOCATION

LIGHTING SCENE: BEDROOM
2: HEADBOARD



Integrated light in the headboard

● SWITCH LOCATION



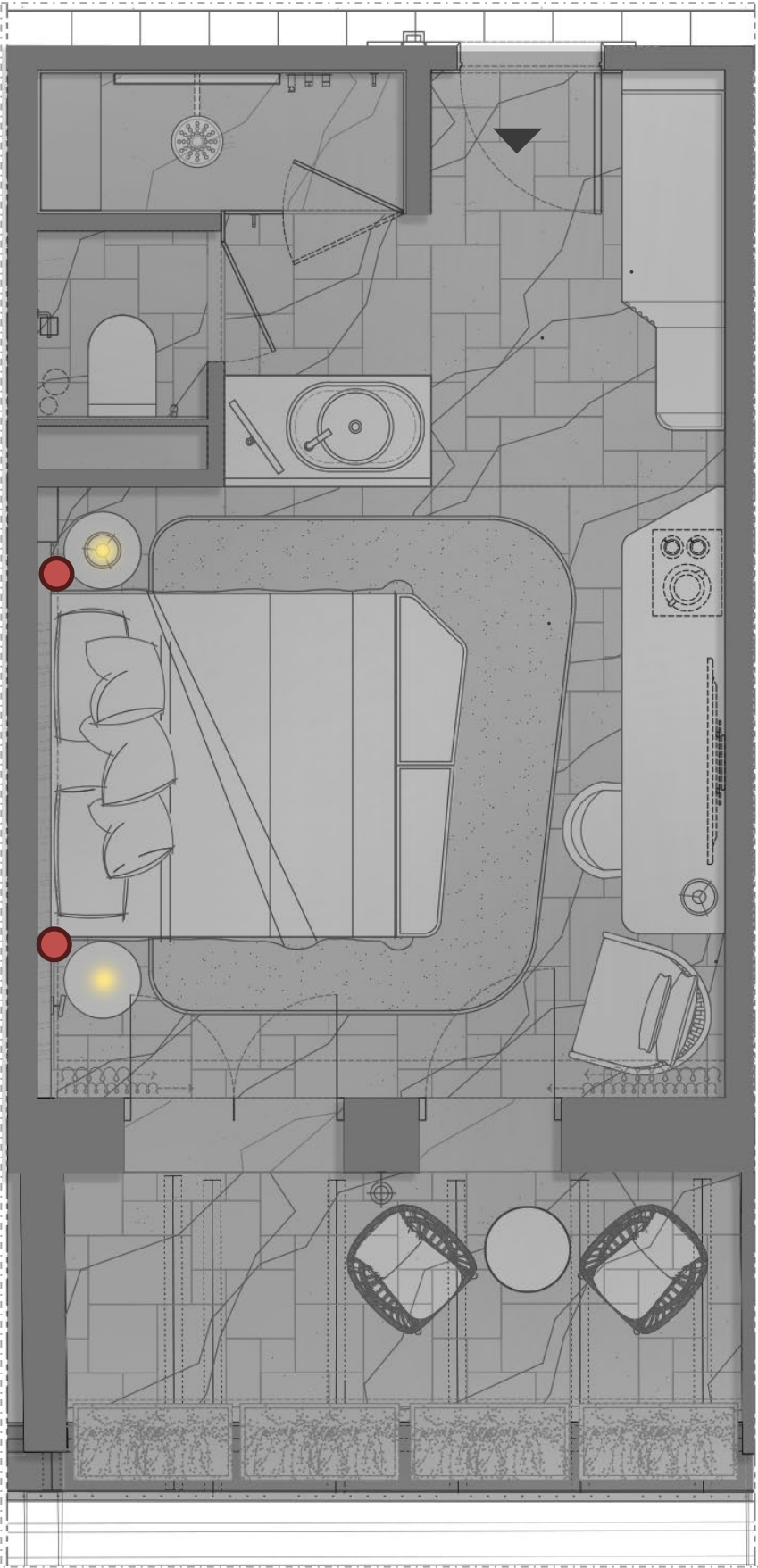
LIGHTING SCENE: BEDROOM
3: BEDSIDE



Reading lamp



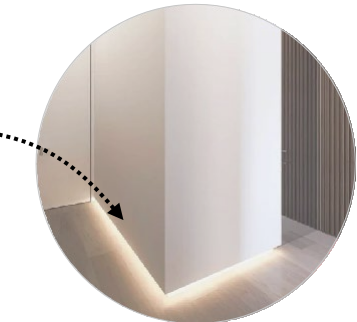
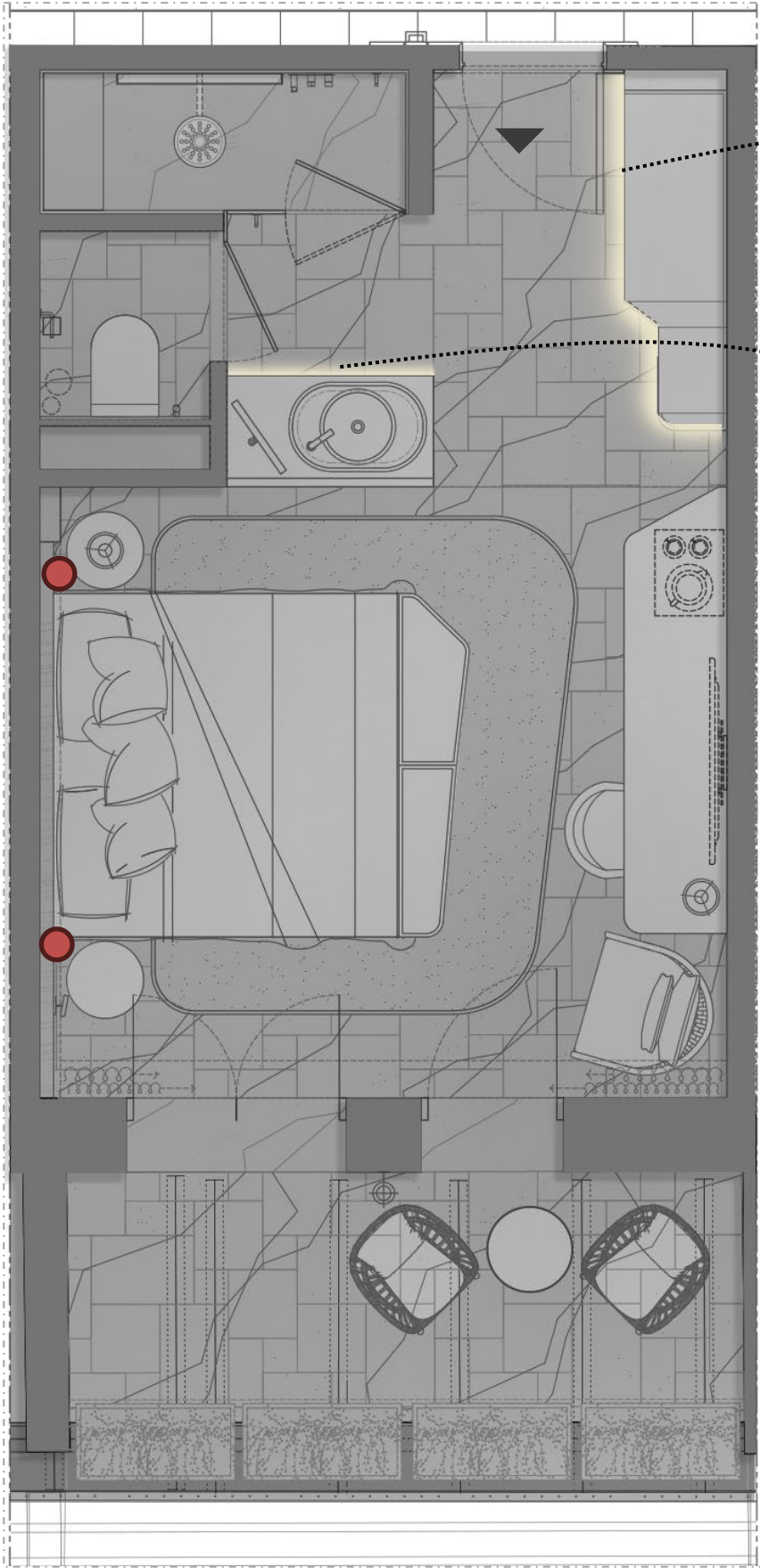
Decorative table lamp
TBD



● SWITCH LOCATION



LIGHTING SCENE: BEDROOM
4: NIGHT SCENE



Skirting light below the wardrobe

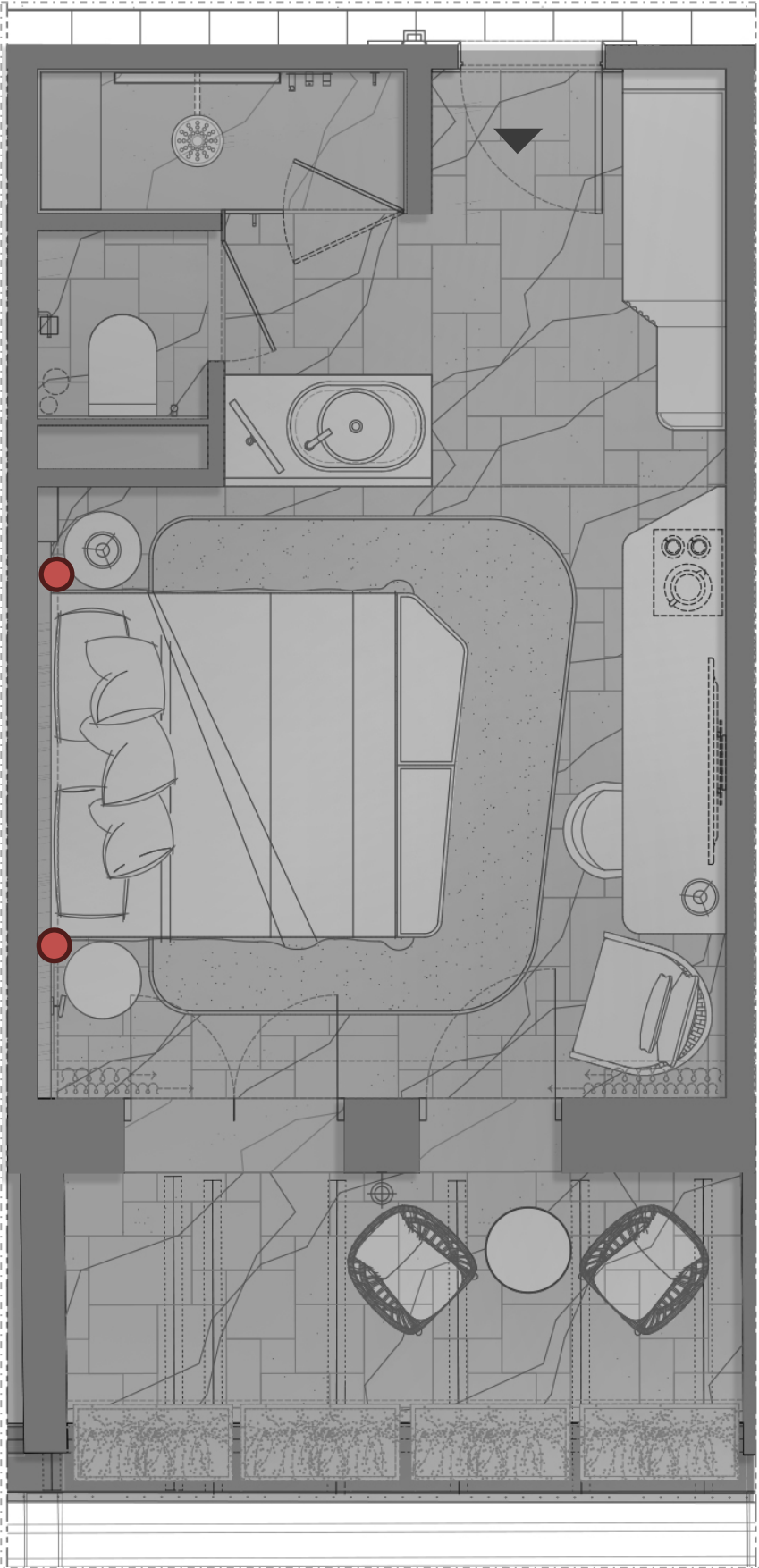


Integrated light under vanity

● SWITCH LOCATION

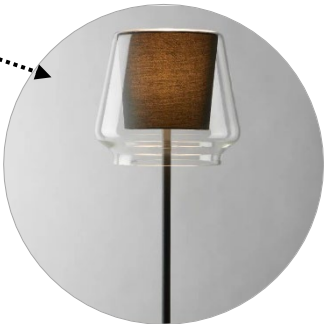
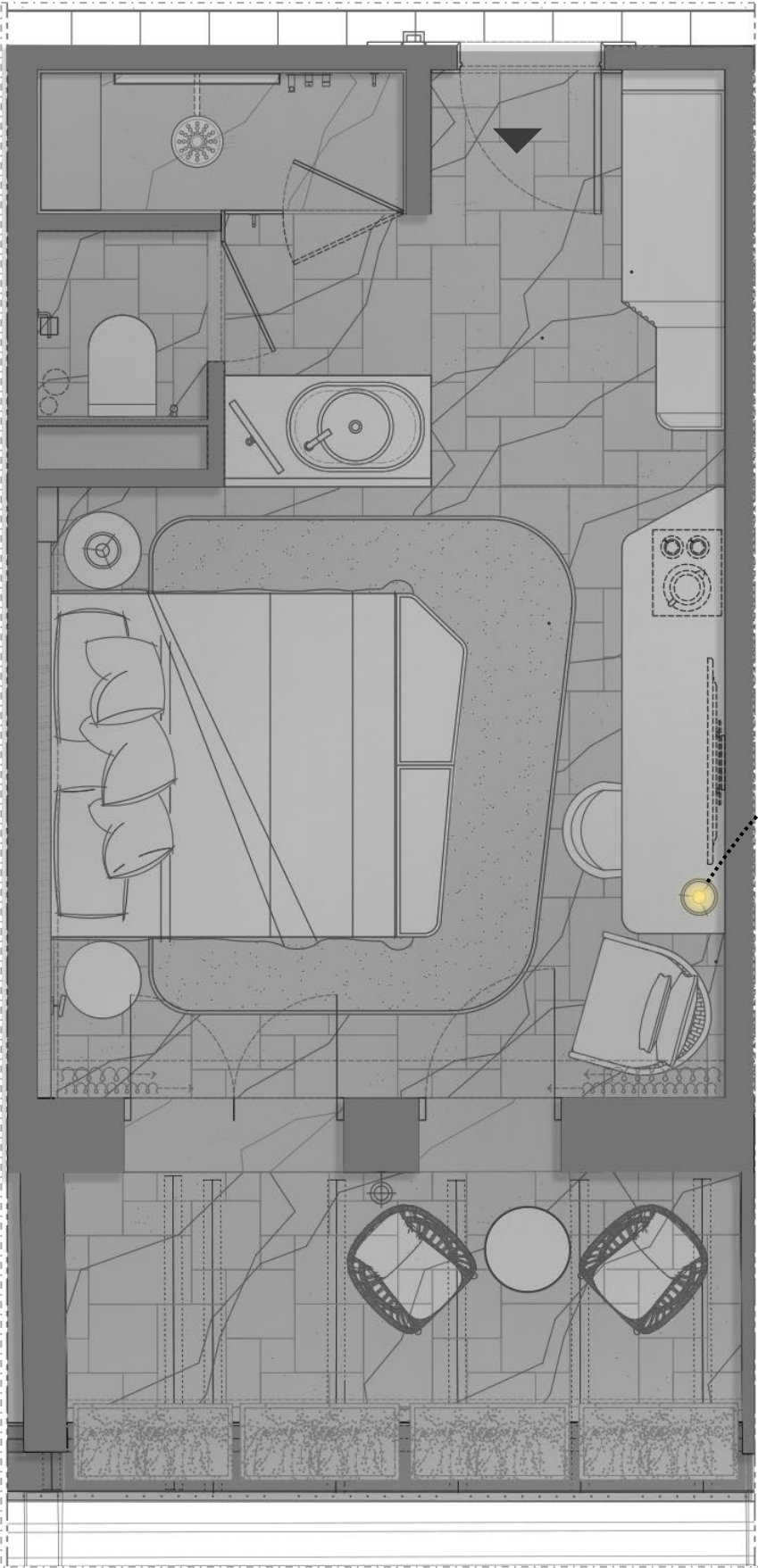


LIGHTING SCENE: BEDROOM
5: ALL OFF



● SWITCH LOCATION

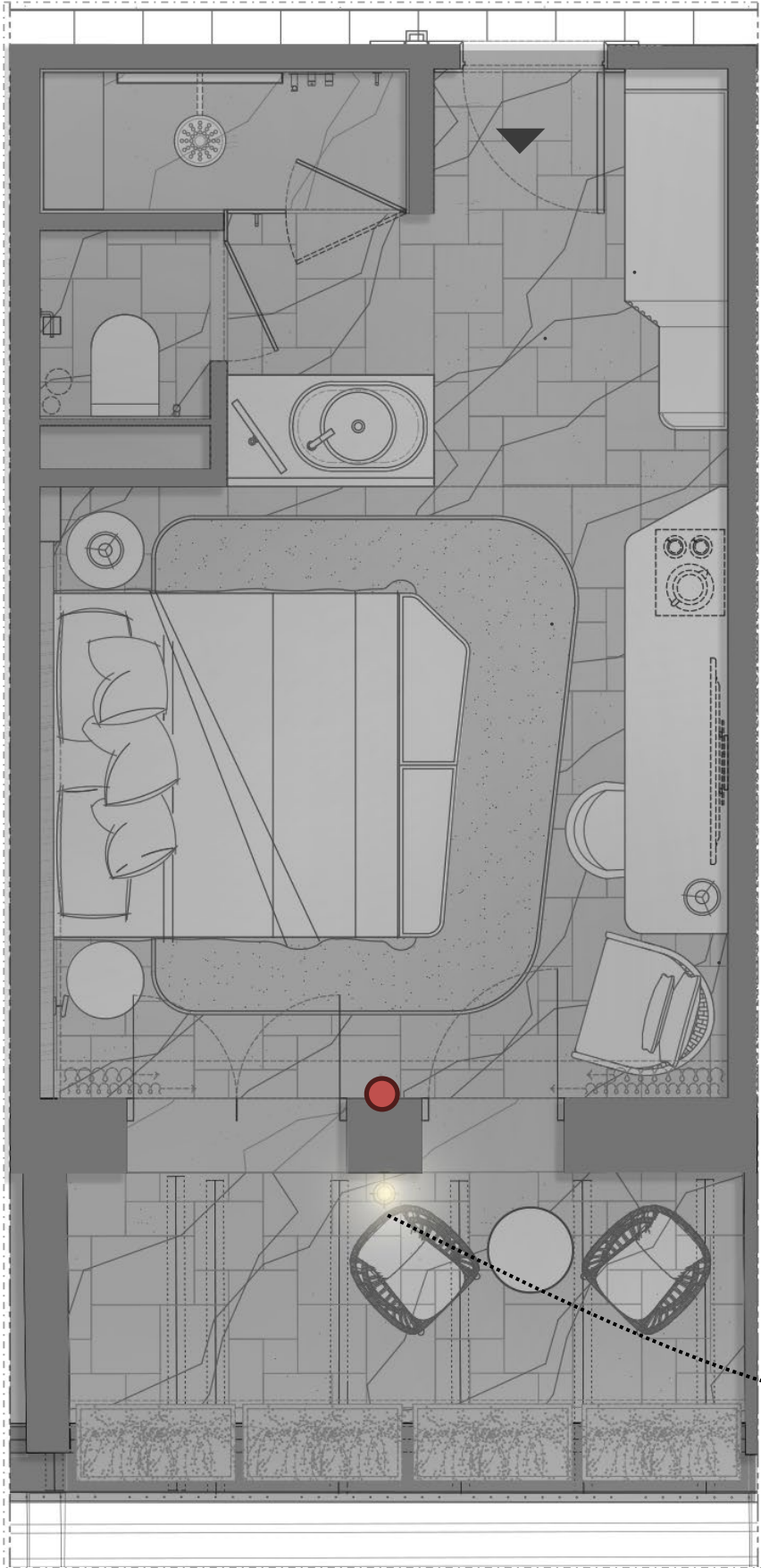
LIGHTING SCENE: BEDROOM



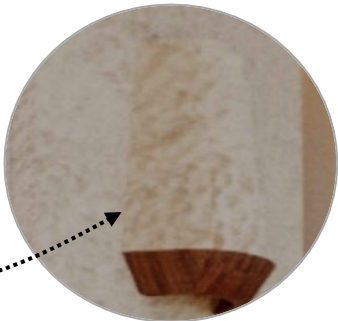
Decorative table lamp

SWITCH on board

LIGHTING SCENE: BEDROOM
EXTERIOR



● SWITCH LOCATION

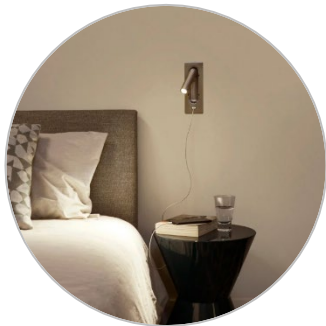


Existing external light



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LIGHTING SCENE: BEDROOM



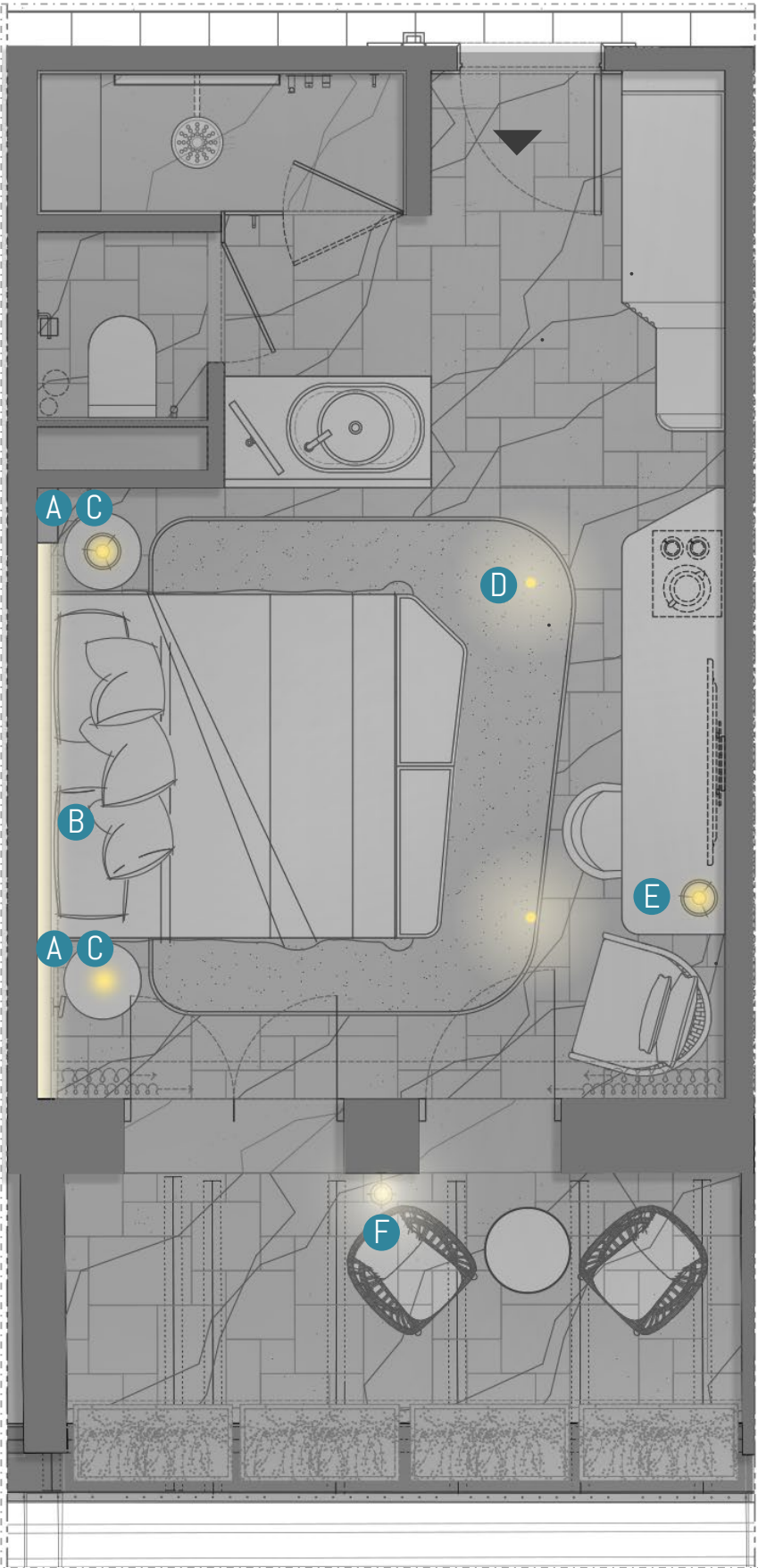
A Reading lamp



B Integrated light in the headboard



C Decorative table lamp
TBD



D Surface mounted adjustable projector



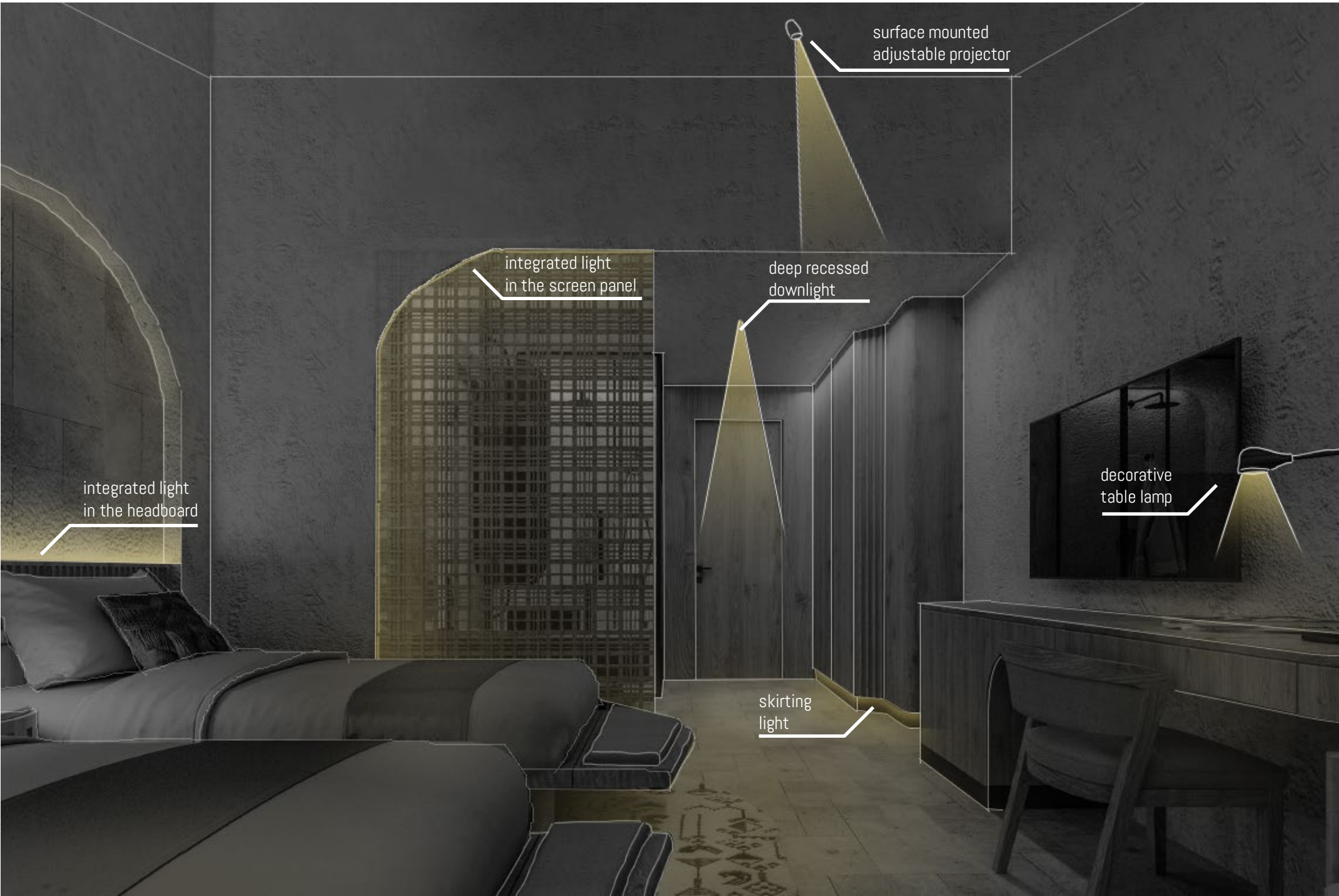
E Decorative table lamp
TBD



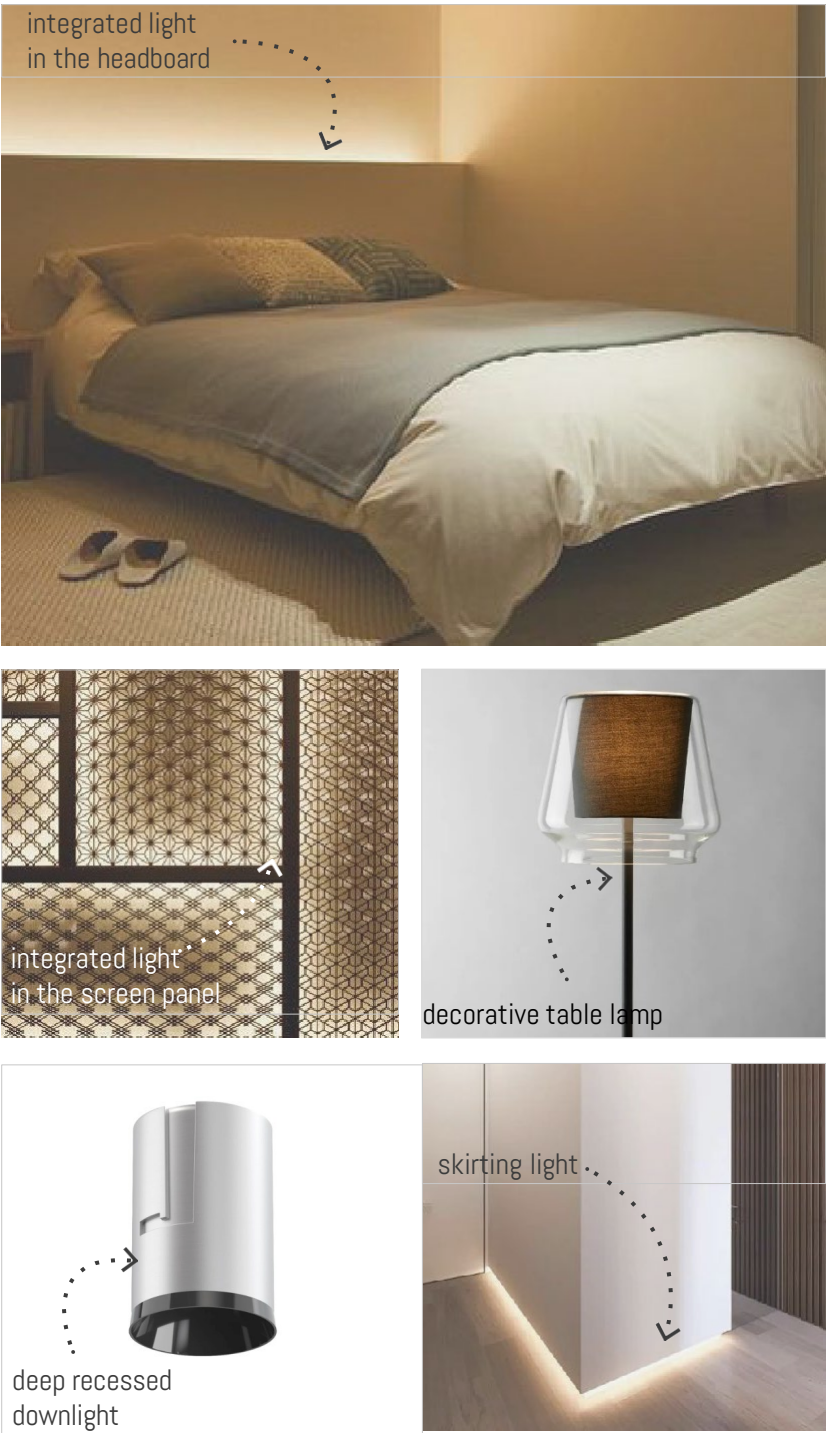
F Existing external light



DESIGN INTENT



View of the bedroom

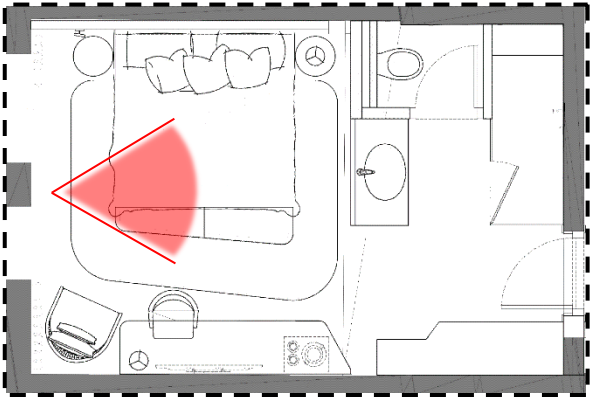


Reference images

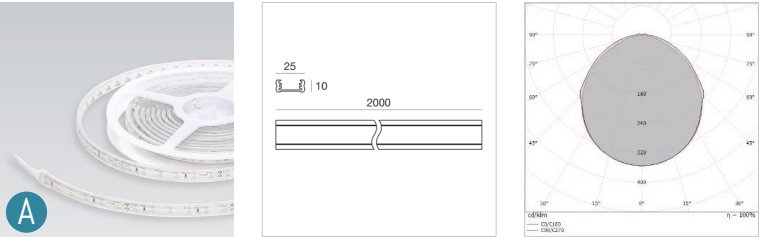
MOCK UP ROOM

LIGHTING SIMULATION

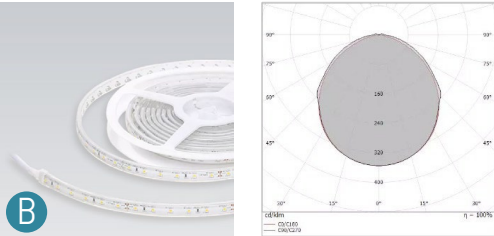
Lighting Concept



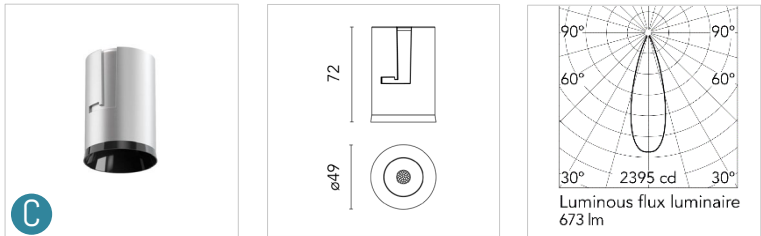
Light scene: ALL ON



LED strip with flat profile – Linealight Ribbon plus



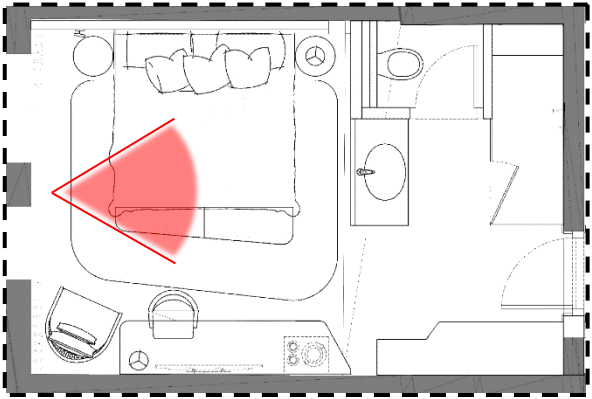
LED strip – Linealight Ribbon plus



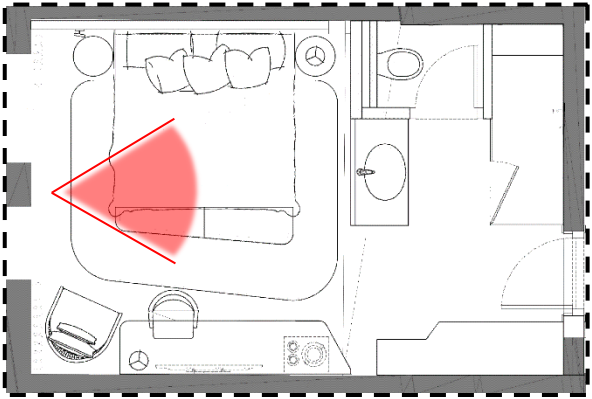
Deep recessed downlight – Flos light shadow pro 45



LIGHTING SIMULATION



Light scene: Soft lighting

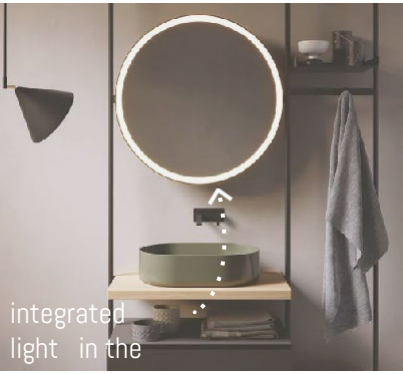
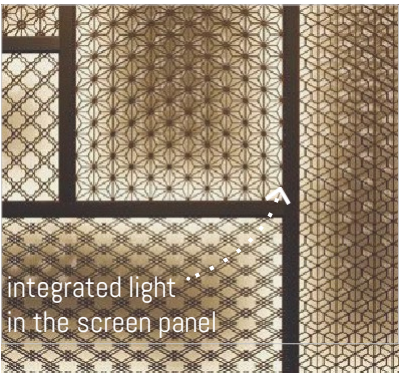
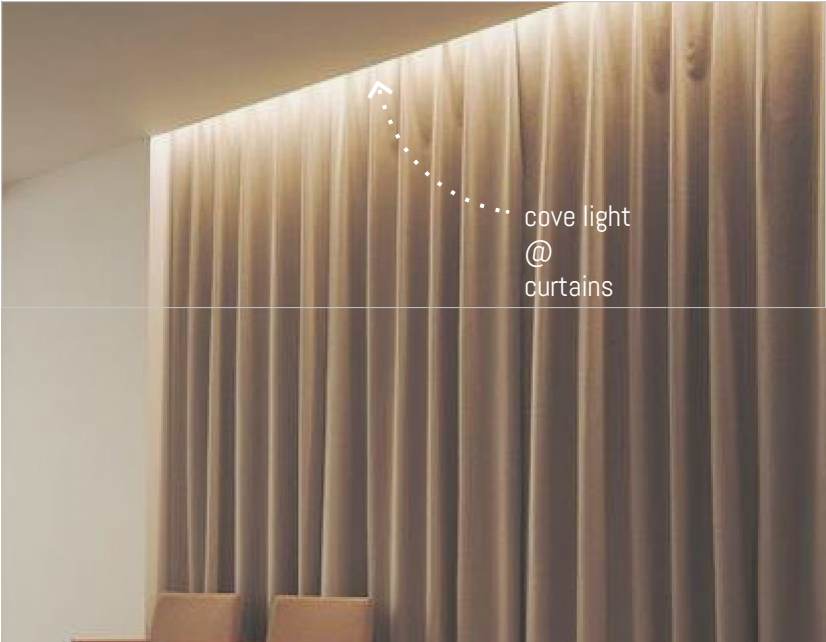


Light scene: Night scene

DESIGN INTENT



View from the entrance

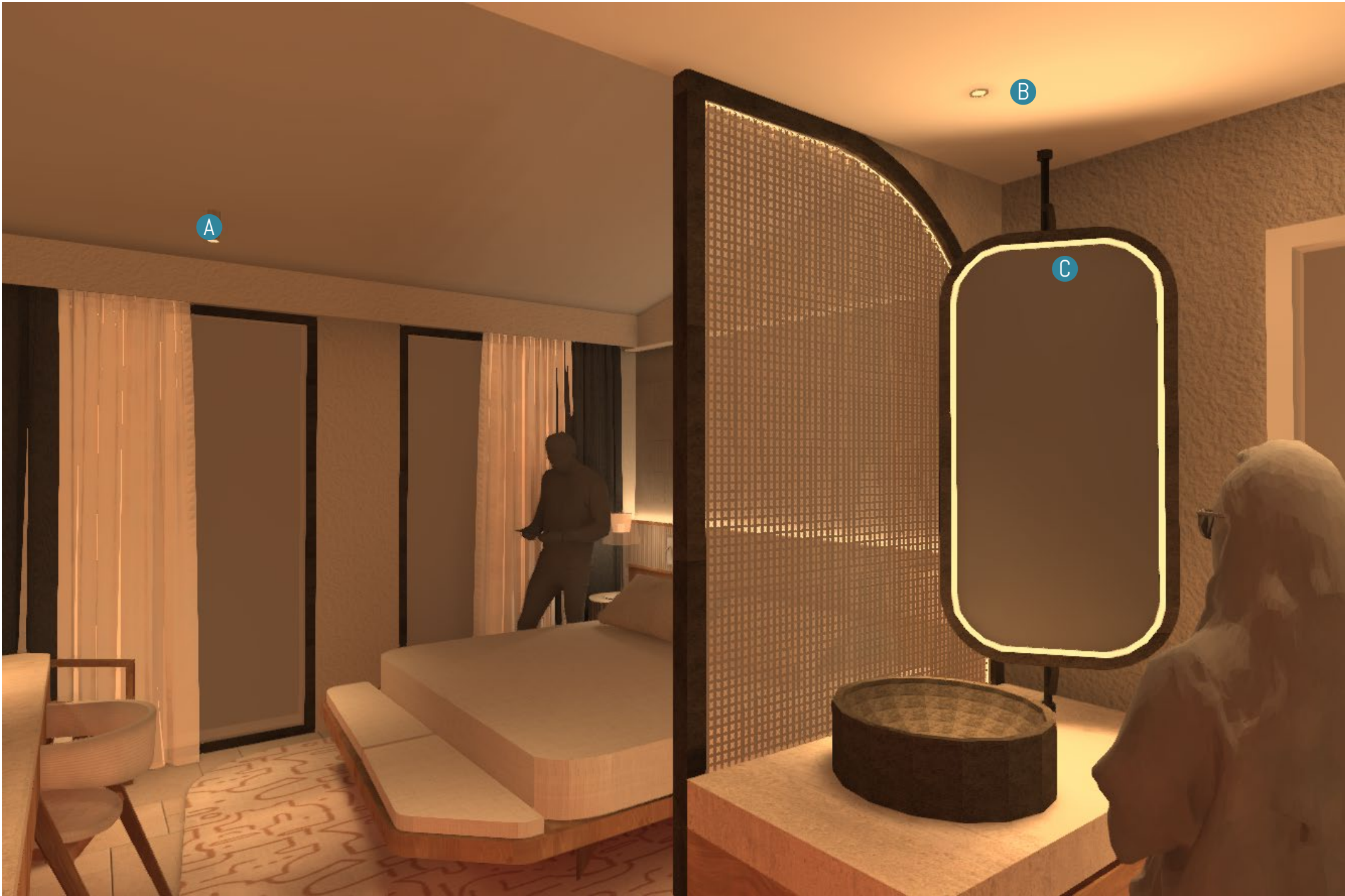
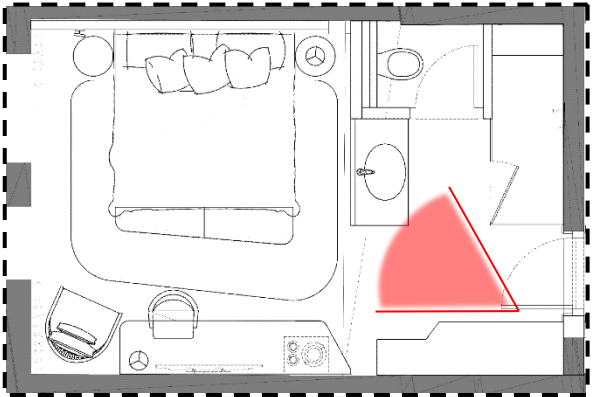


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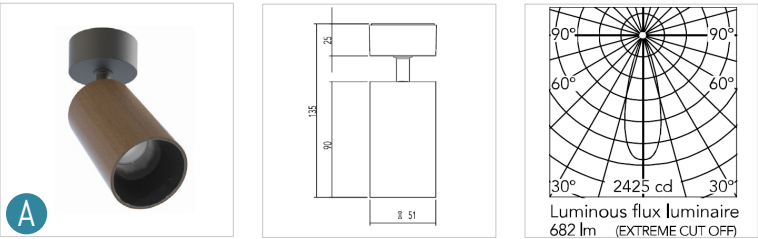
MOCK UP ROOM

LIGHTING SIMULATION

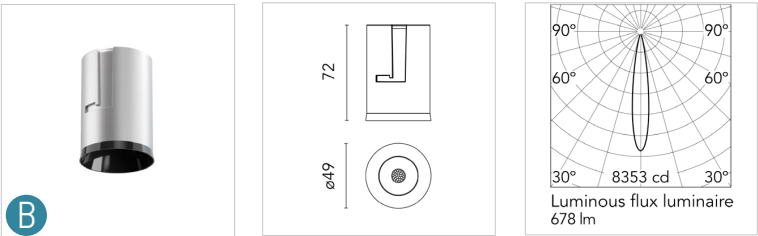
Lighting Concept



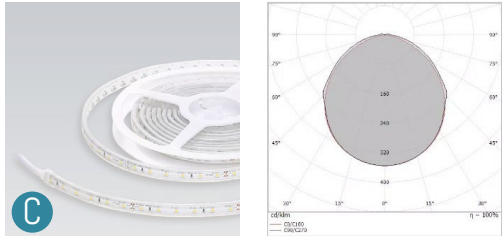
Light scene: ALL ON



Surface mounted adjustable projector – Flos light shadow pro 45

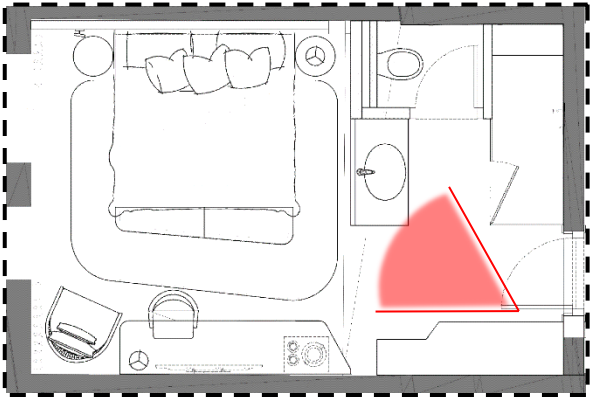


Deep recessed downlight – Flos light shadow pro 45



LED strip – Linealight Ribbon plus





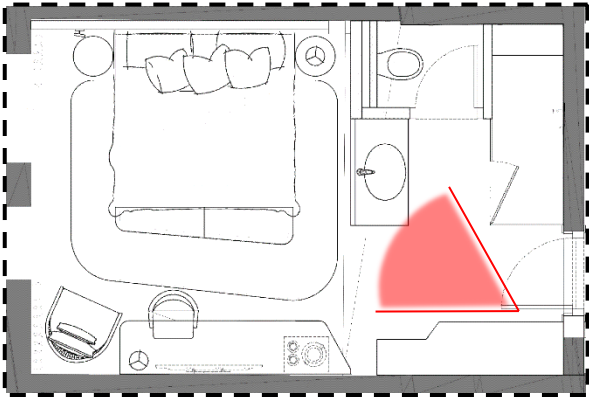
Light scene: Soft lighting



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Light scene: Night scene

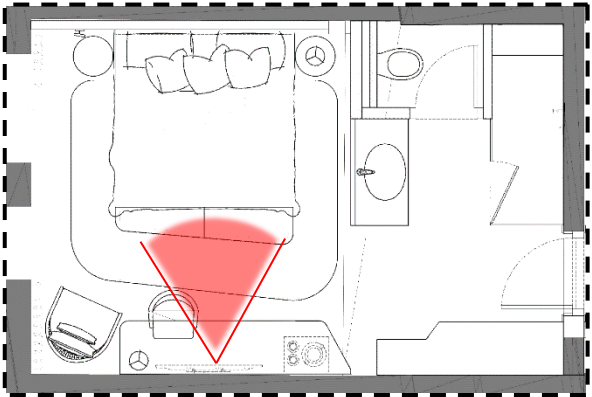


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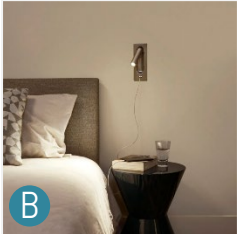
MOCK UP ROOM

LIGHTING SIMULATION

Lighting Concept



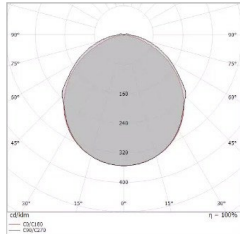
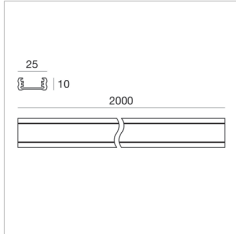
A
Decorative bedside lamp **TBD**



B
Reading lamp – Marset Ledtube



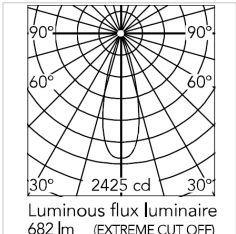
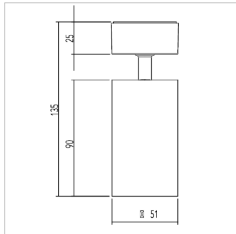
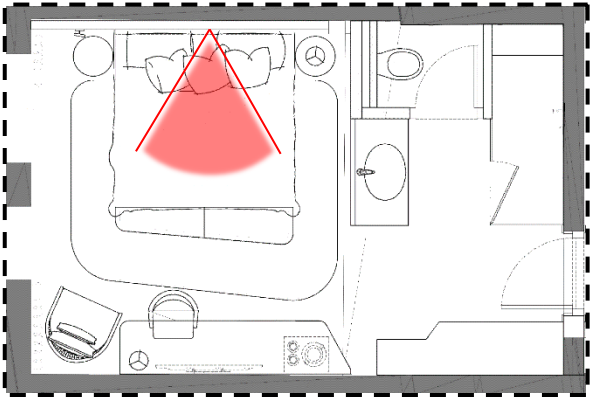
C
LED strip with flat profile – Linealight PU-C Plus



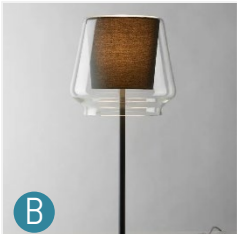
MOCK UP ROOM

LIGHTING SIMULATION

Lighting Concept



Surface mounted adjustable projector – Flos light shadow pro 45



Decorative table lamp



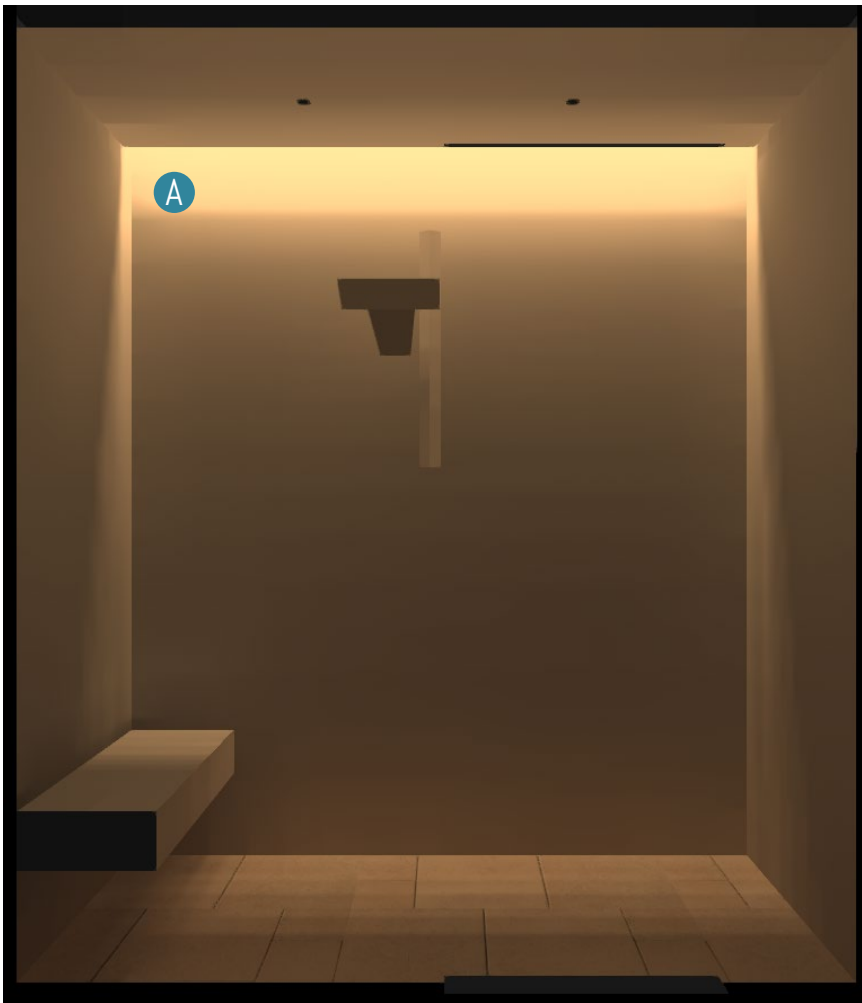
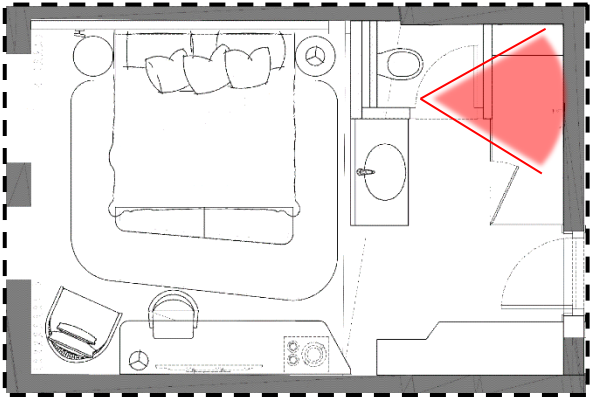
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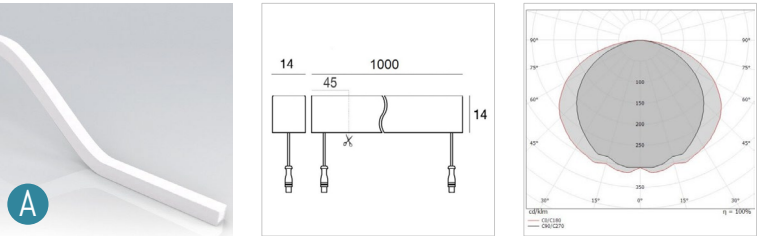
MOCK UP ROOM

LIGHTING SIMULATION

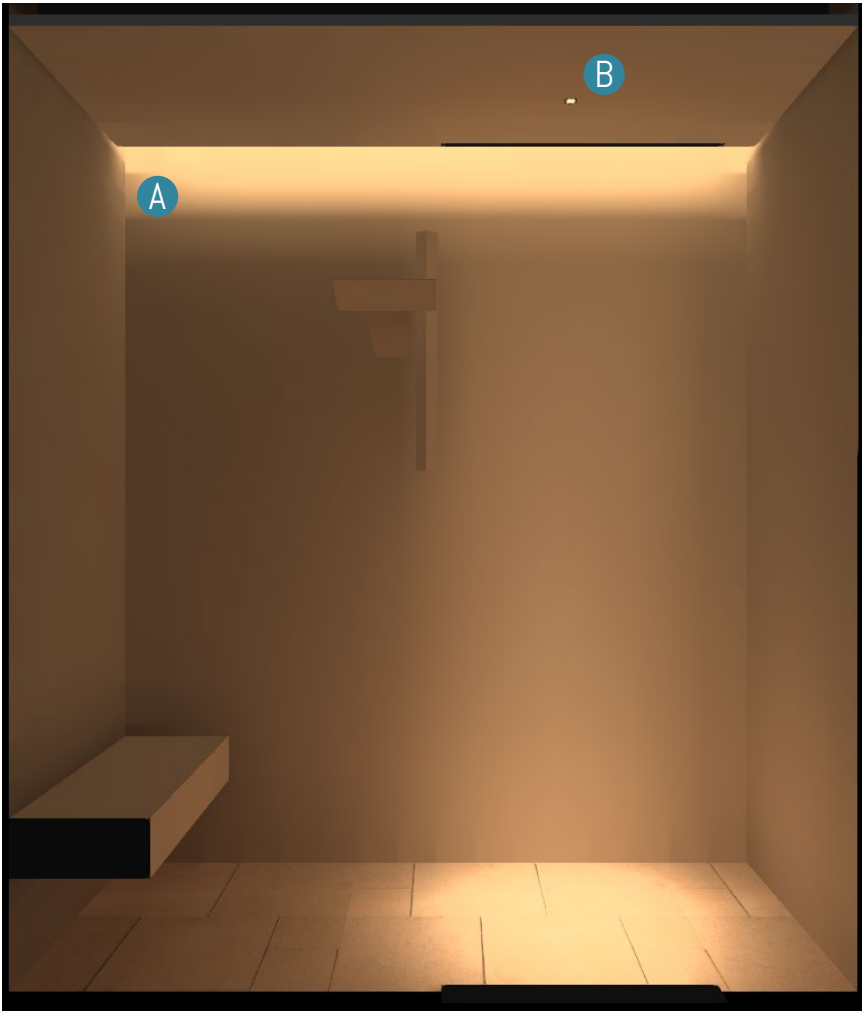
Lighting Concept



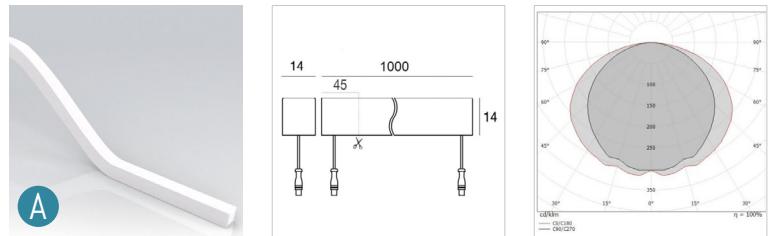
Light scene: Soft lighting



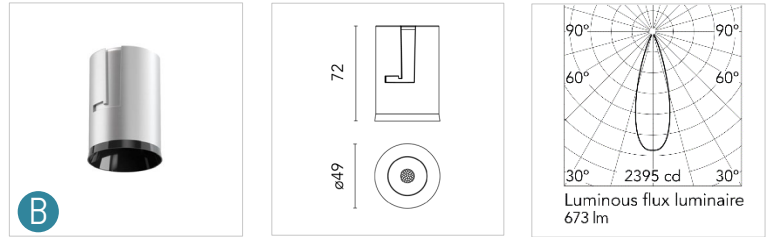
LED strip IP rated – Linealight 3D Rubber PROtection



Light scene: ALL ON



LED strip IP rated – Linealight 3D Rubber PROtection



Deep recessed downlight – Flos light shadow pro 45

CORRIDOR



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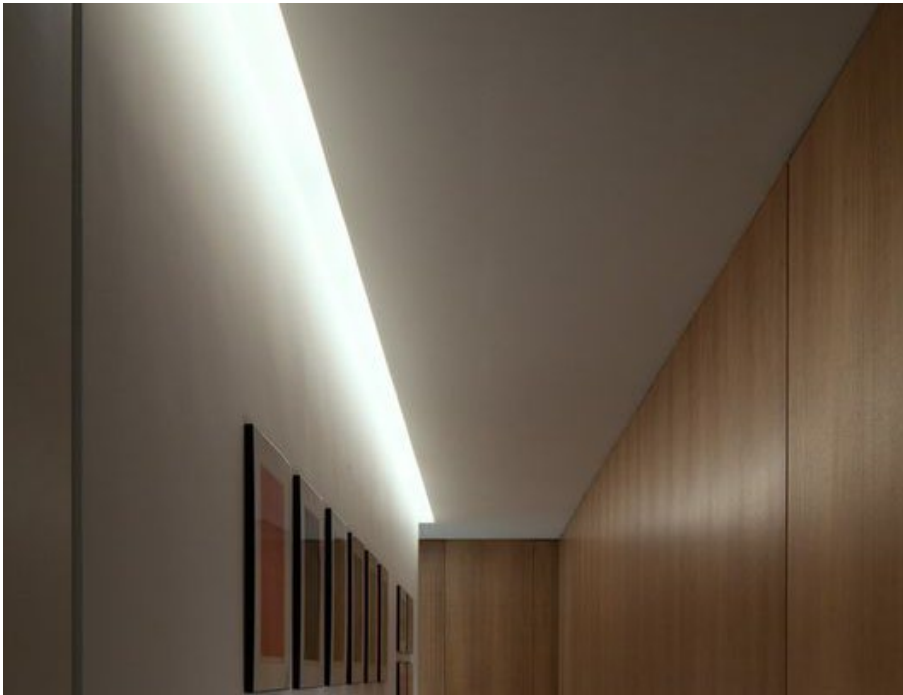
MOOD BOARD



DESIGN INTENT

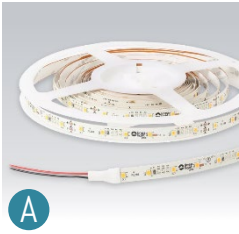


View of the corridor

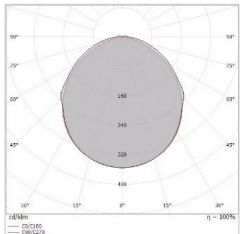
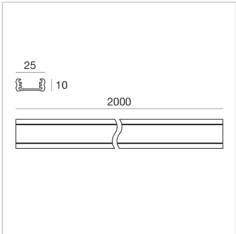


Reference images

LIGHTING SIMULATION



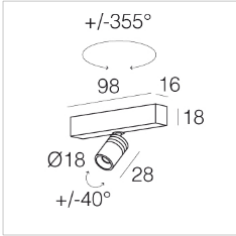
A



LED strip with flat profile – Linealight Ribbon plus



B



Track-mounted micro spot – DGA Mini Tini 24V



SUMMARY

PRE-REQUISITE

Minimum Energy Performance

1. Should comply with ASHRAE 90.1-2010

SECTION 9. LIGHTING

9.5 Building Area Method Compliance Path

TABLE 9.5.1 Lighting Power Densities
Using the Building Area Method

Building Area Type ^a	LPD (W/m ²)
Automotive facility	8.8
Convention center	11.6
Courthouse	11.3
Dining: bar lounge/leisure	10.7
Dining: cafeteria/fast food	9.7
Dining: family	9.6
Dormitory	6.6
Exercise center	9.5
Fire station	7.6
Gymnasium	10.8
Health-care clinic	9.4
Hospital	13.0
Hotel	10.8
Library	12.7
Manufacturing facility	11.9
Motel	9.5
Motion picture theater	8.9
Multifamily	6.5
Museum	11.4
Office	9.7
Parking garage	2.7
Penitentiary	10.4
Performing arts theater	15.0
Police station	10.3
Post office	9.4
Religious building	11.3
Retail	15.1
School/university	10.7
Sports arena	8.4
Town hall	9.9
Transportation	8.3
Warehouse	7.1
Workshop	2.9

^a In cases where both a general building area type and a specific building area type are listed, the specific building area type shall apply.

MOCK-UP ROOM	23. 40 m²
Total Wattage	178.10 W
Lighting Power Density (LPD)	7.60 W/m² ✓

CORRIDOR	7. 40 m²
OPTION 1	
Total Wattage	39.50 W
Lighting Power Density (LPD)	5.33 W/m² ✓
OPTION 2	
Total Wattage	54.80 W
Lighting Power Density (LPD)	7. 40 W/m² ✓

CREDITS

- Interior Lighting
- 1 strategy = 1 point
- 3 strategies = 2 points
1. Glare control

 - Lighting fixture < 7.000 cd/m²
 - UGR < 19
2. CRI ≥ 90
3. Lighting control

 - Lighting dimmable or multi-level for 90% of the occupied spaces
4. Surface reflectivity

 - Surface reflectance
 - ≥ 80% ceiling
 - ≥ 55% walls
 - ≥ 45% working plane
 - ≥ 50% movable partitions