

### ORION TECH



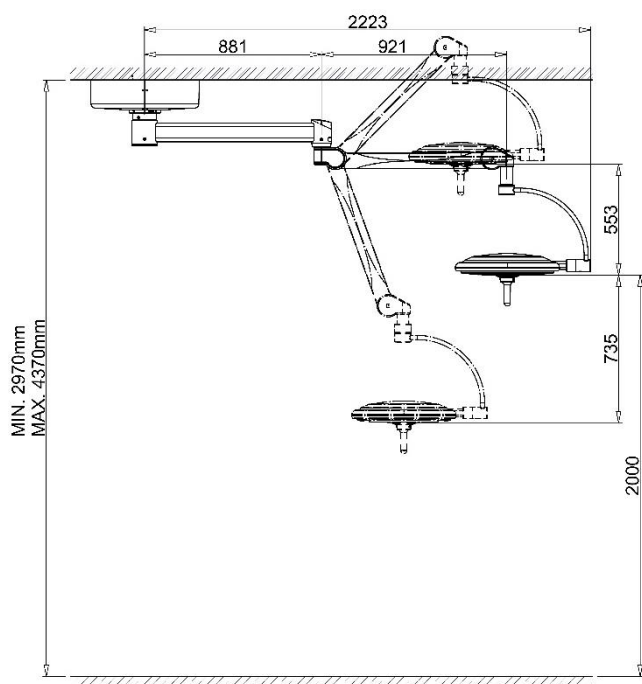
*Version with Double fork  
articulation*



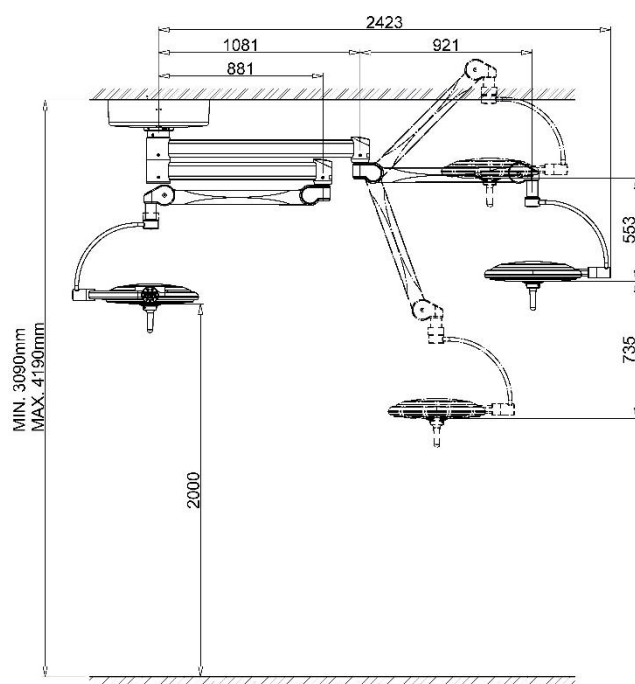
*Version with Single fork  
articulation*

### TECHNICAL PROPERTIES

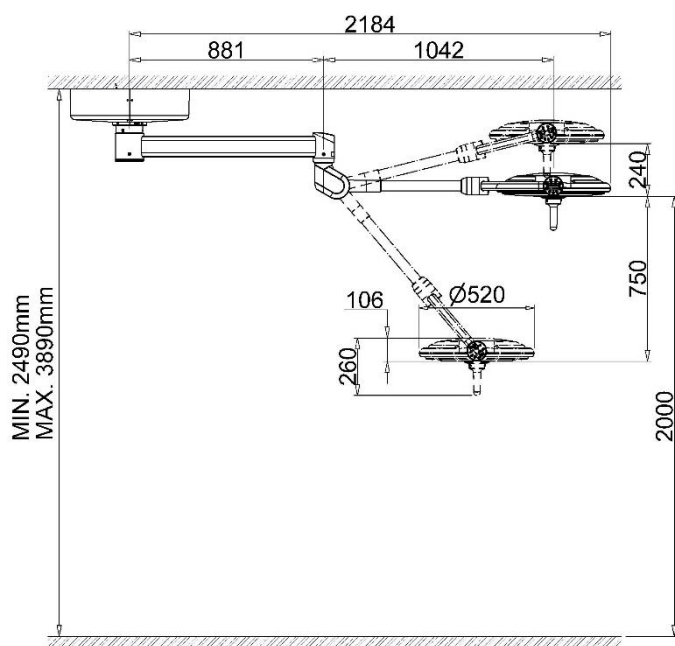
Performance			
		ORION TECH	
		Double Articulation	Single Articulation
Light intensity (Ec)	100cm	130klx	
	70cm	70klx ( <i>Dental care</i> )	
Colour temperature (K)		4500/5000	
Colour rendering index (CRI)		96	
R9		≥ 90	
Light source		n° 29 Leds	
Focus		Fissa	
Light field depth		40 cm	
Light field diameter d <sub>10</sub>		19 cm	
Light field diameter d <sub>10</sub> (with <i>Dental Care</i> function)		20x15 cm	
Electrical Data			
Primary voltage (Vac)		110/230 V	
Secondary voltage (Vdc)		24 V	
Frequency		50/60 Hz	
Power consumption		60 VA	
Dimensional Data			
Diameter of lamp body		52 cm	
Weight of single-dome lamp		48 kg	45 kg
Weight of double-dome lamp		81 kg	75 kg



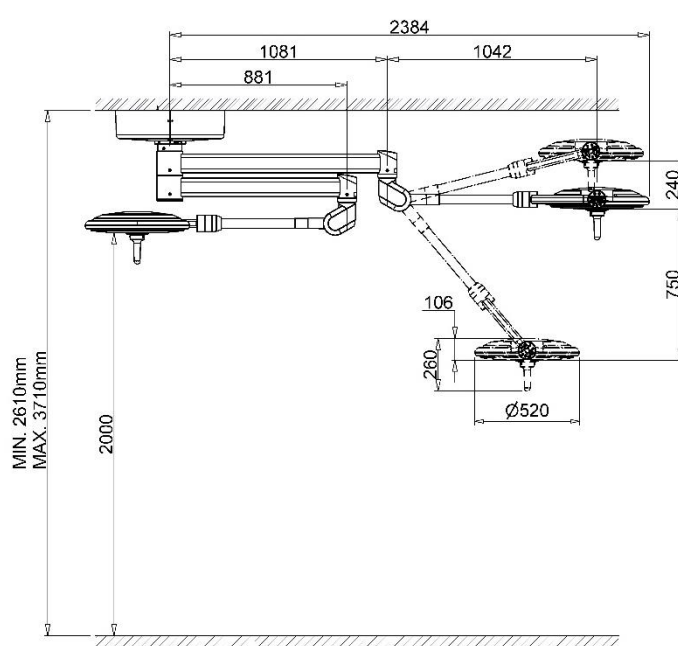
**SINGLE-dome model with Double Articulation<sup>(1)</sup>**



**DOUBLE-dome model with Double Articulation<sup>(2)</sup>**



**SINGLE-dome model with Single Articulation<sup>(1)</sup>**



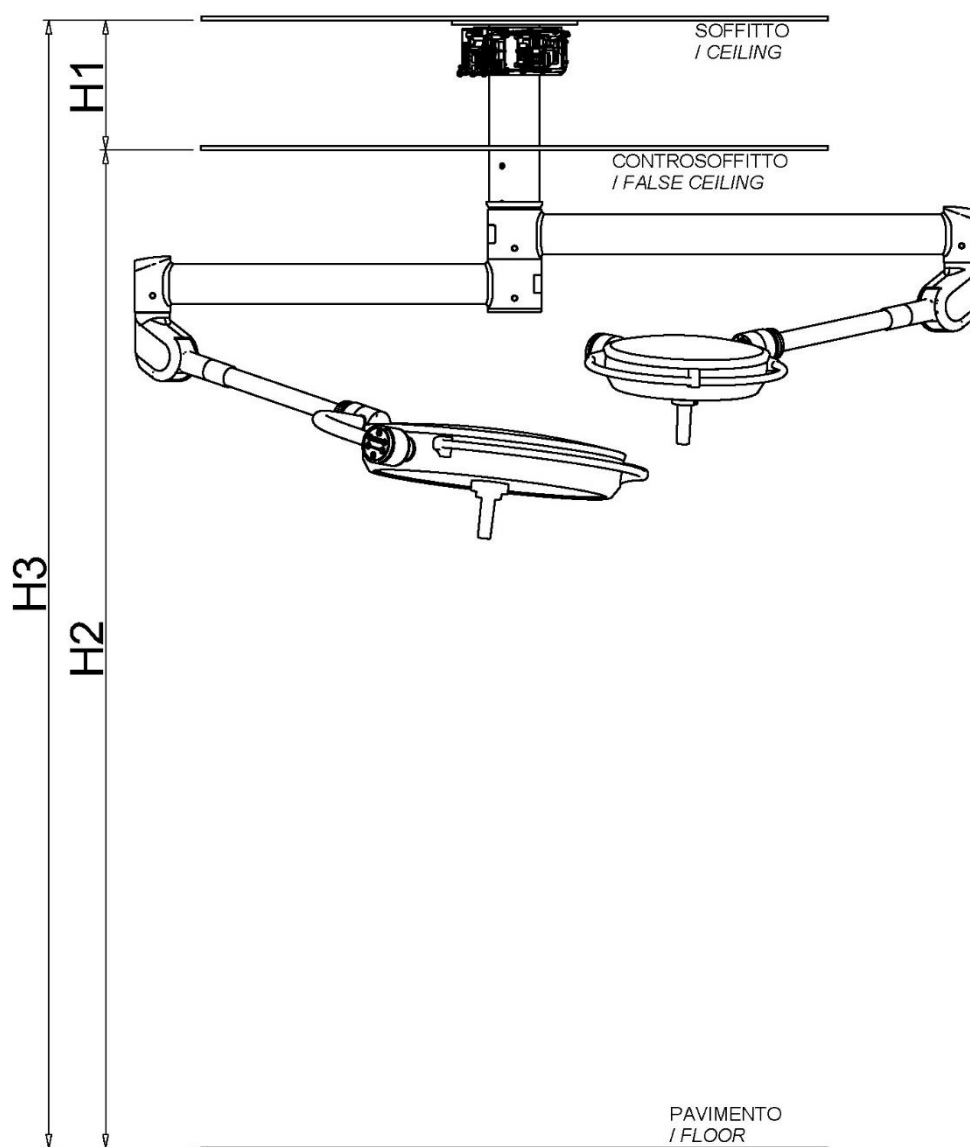
**DOUBLE-dome model with Single Articulation<sup>(2)</sup>**

## IMPORTANT

WHEN ORDERING, INDICATE CEILING HEIGHT BY FILLING IN THE FORM ON THE NEXT PAGE  
PLEASE FILL THE FORM COMPLETELY - NAME IN CAPITAL LETTERS - SIGNATURE - COMPULSORY STAMP - OTHERWISE,  
THE ORDER MAY NOT BE PROCESSED.

## Notes

(1) (2) in conditions of room height lower or higher than those indicated or in case of false ceiling, contact customer service to assess project feasibility.

**SCIALYTIC LAMP SUPPLY SPECIFICATIONS**


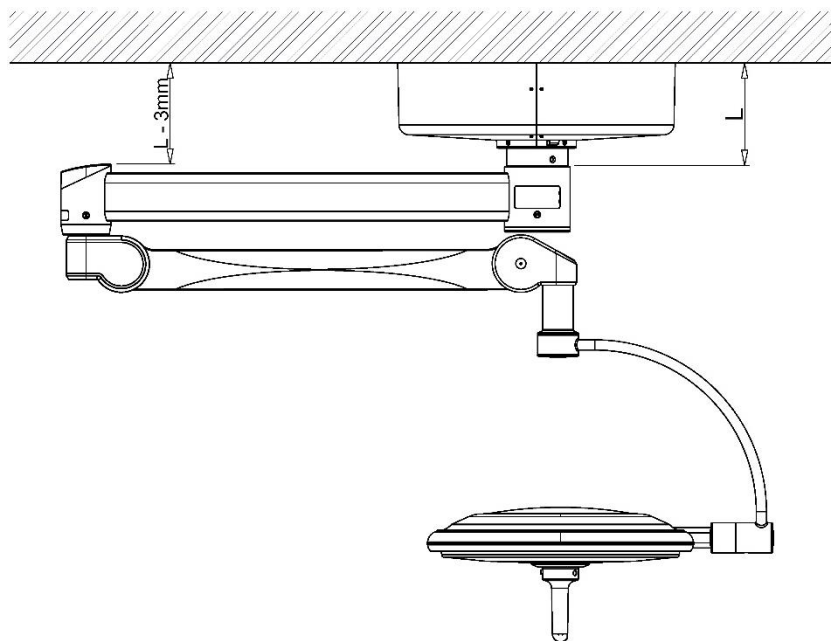
Please complete:

<b>Date</b>			<b>Article</b>		
<b>Retailer</b>					
<b>Power supply</b>					
<b>H1 (cm)</b>		<b>H2 (cm)</b>		<b>H3 (H1+H2) (cm)</b>	
<b>Signature</b>	<hr/>				

## ANCHORING TUBE LENGTH TABLES

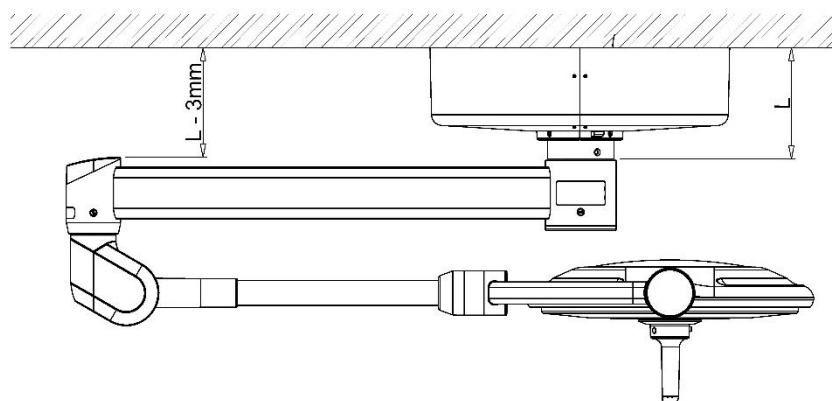
Depending on the height of the room indicated at the time of ordering, the anchoring tube is calculated and supplied with correct measurement to ensure installation of the lamp at 2m from the floor.

*SINGLE-dome model with Double Articulation*

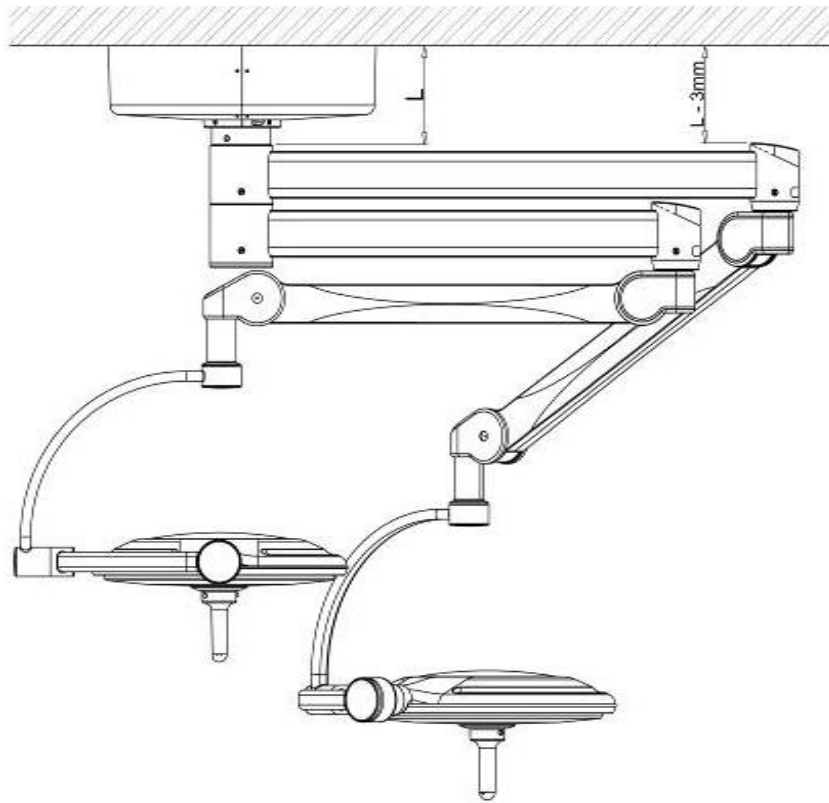


H [mm]	L [mm]
2970	200
3070	300
3170	400
3270	500
3370	600
3470	700
3570	800
3670	900
3770	1000
3870	1100
3970	1200
4070	1300
4170	1400
4270	1500
4370	1600

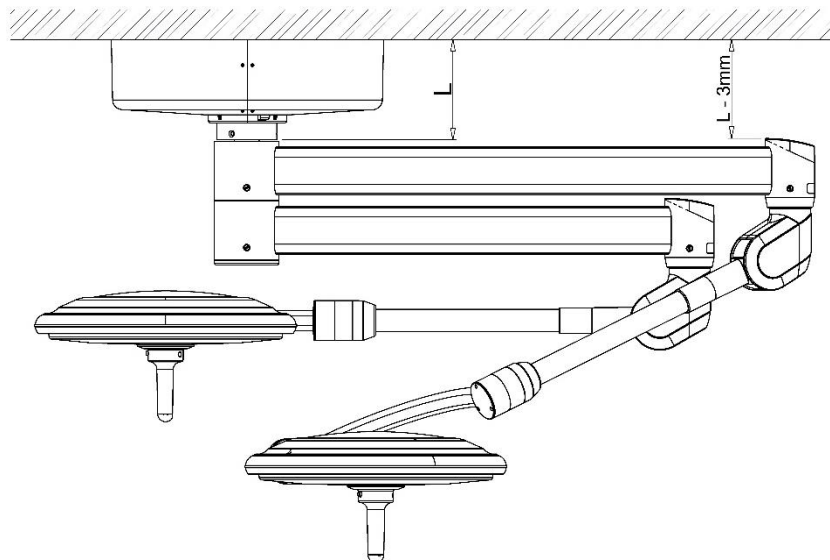
*SINGLE-dome model with Single Articulation*



H [mm]	L [mm]
2490	200
2590	300
2690	400
2790	500
2890	600
2990	700
3090	800
3190	900
3290	1000
3390	1100
3490	1200
3590	1300
3690	1400
3790	1500
3890	1600

***DOUBLE-dome model with Double Articulation***


<b>H [mm]</b>	<b>L [mm]</b>
3090	200
3190	300
3290	400
3390	500
3490	600
3590	700
3690	800
3790	900
3890	1000
3990	1100
4090	1200
4190	1300

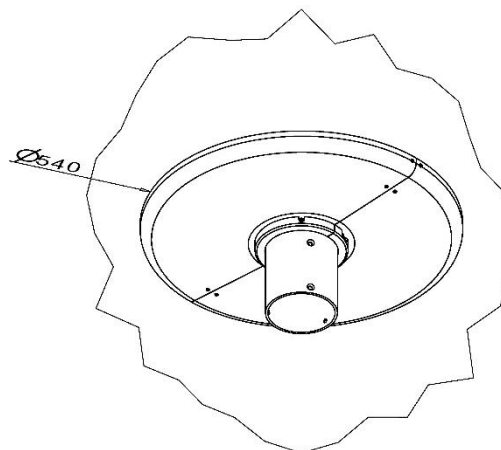
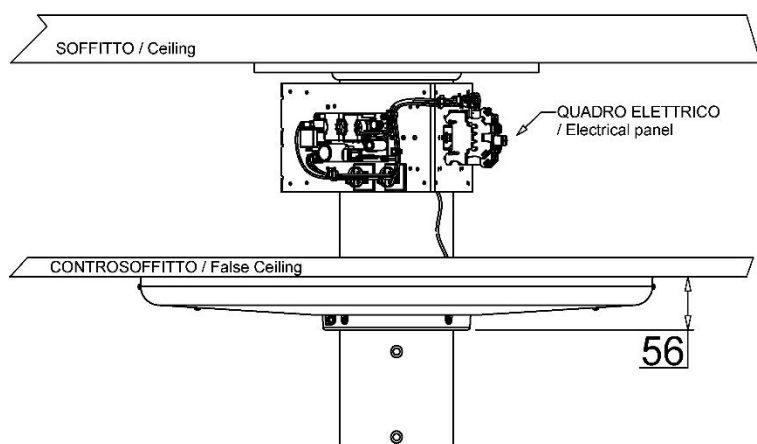
***DOUBLE-dome model with Single Articulation***


<b>H [mm]</b>	<b>L [mm]</b>
2610	200
2710	300
2810	400
2910	500
3010	600
3110	700
3210	800
3310	900
3410	1000
3510	1100
3610	1200
3710	1300

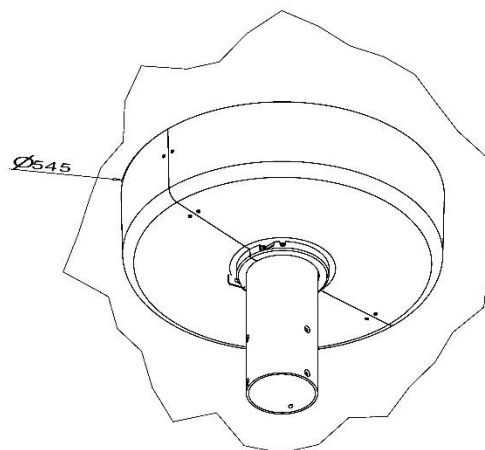
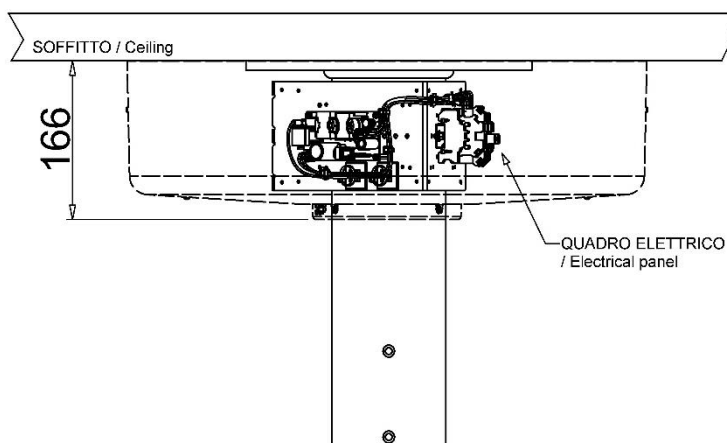
## CEILING COVER

Depending on installation conditions, the supply is envisaged, together with the device, of two possible different types of ceiling covering.

- In case of false ceiling, because the control panel remains housed in the space between the ceiling and the false ceiling, the device is commonly equipped with low covering, split into two halves.



- In case of absence of false ceiling, the device is commonly equipped with high covering, required to contain the control panel fastened to the anchoring tube.



### Notes

in case of requirements other than standard supply, the desired covering can be requested by expressing your choice directly on the order. The required solution will be assessed by our technical staff to determine feasibility.

## CEILING ANCHORAGE CHARACTERISTICS

### - PREPARING THE PREMISES MECHANICALLY

The masonry works for preparing the ceiling to install the Product must be sturdy and safe and performed in a workmanlike manner by qualified personnel under the sole responsibility of the end customer.

Qualified personnel include but are not restricted to the following professional figures: Construction Engineer, Draughtsman, Building firm, duly registered in a professional register.

The ceiling must be able to withstand a weight of at least 300 kg/m<sup>2</sup> and have a thickness of at least 250 mm. The installation premises must have building code compliance.

The process of mechanically anchoring the ceiling plate must be carried out by determining in advance the type of ceiling involved and behaving consequentially; by way of example only, below is a list of some types of walls and relative anchoring methods:

**Reinforced concrete**     *Mechanical anchoring:* proceed to fasten the ceiling plate using 6 screw anchors<sup>(3)</sup> carefully following the instructions provided by the anchor manufacturer

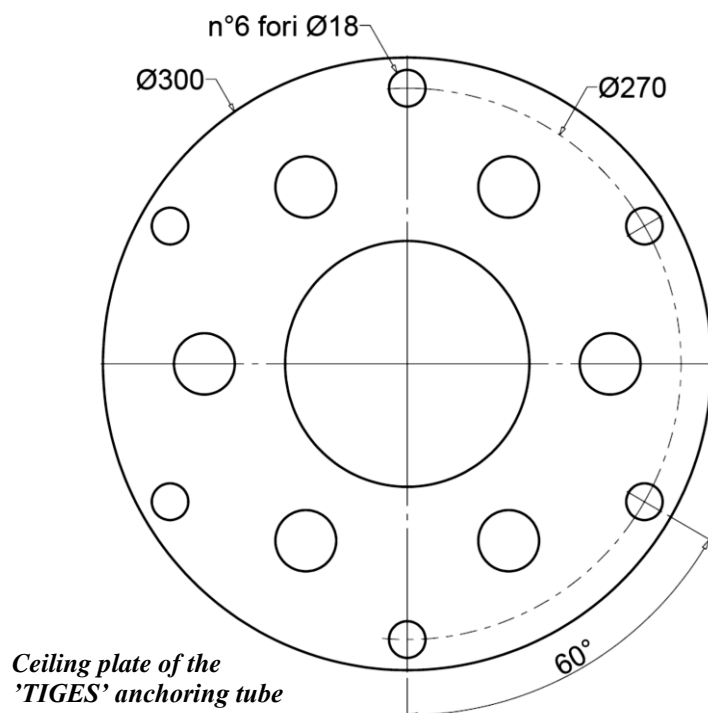
*Chemical anchoring:* proceed to fasten the ceiling plate using 6 injection chemical anchors<sup>(3)</sup> carefully following the instructions provided by the anchor manufacturer.

**Hollow-core concrete**     In this case, the floor slab must be sandwich closed by means of the lamp plate and counter-plate.

The plate and counter-plate shall be jointed with steel threaded bar<sup>(3)</sup>, and clamped on the top and bottom ends with suitable washers, nuts and lock nuts.

<sup>(3)</sup> the use is allowed of anchoring means/threaded bars of size up to M18 at most, due to the diameter of the through holes of the plate.

### - DRILLING PATTERN<sup>(4)</sup>



#### Notes

(4) Optionally, it is possible to request the supply of an additional plate and counter-plate system, to which the device can then be fixed by means of the TIGES plate shown alongside.

The drilling pattern of the additional system differs from that shown alongside.

For further information or to request the plate and counter-plate system, please contact customer service.

## STATIC AND EXECUTION CONFORMITY

### Preliminary conditions for static conformity

Competent building technicians must confirm in writing compliance with the national directives and the following points.

The customer must keep the certification together with the product documentation and attach a copy to the order.

1. The installation premises must have building code compliance.
2. Competent building technicians must establish in advance the anchoring method best suited to the type of ceiling and accept responsibility for their decision.
3. The supporting ceiling must be able to withstand a weight of at least 300 kg/m<sup>2</sup> and have a thickness of at least 250mm.

Any other loads must also be taken into consideration acting above the ceiling as well as loads anchored to the ceiling itself.

The load-bearing ceiling should be preferably made of reinforced concrete.

4. Each of the six ceiling anchoring devices should have a load-bearing capacity of at least 2000N (≈200kg).

Such load-bearing capacity can be determined according to the following points:

- Indications provided by the anchoring device manufacturer
- Quality of the load-bearing ceiling, e.g., the strength of the reinforced concrete
- Arrangement of the anchors, with reduction due to distance between them

### DECLARATION

On the basis of the above points, it is hereby certified that the static calculation and the masonry works for anchoring the product and carried out at:

*Customer's name and address:* \_\_\_\_\_

\_\_\_\_\_

have been completed in a solid and safe manner, in a workmanlike way.

*Name and address of calculating Engineer:*

\_\_\_\_\_

\_\_\_\_\_

**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

*Name and address of company which did the work:*

\_\_\_\_\_

\_\_\_\_\_

**Signature** \_\_\_\_\_ **Date** \_\_\_\_\_

### IMPORTANT:

**TECNO-GAZ S.p.a. disclaims all liability for any type of structural collapse that could occur over time.**



 <b>TECNO-GAZ</b>	<b>ORION TECH Lamp</b> <b>CEILING version</b>	EN	04 Apr. 2019
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## **- CORRECTLY WIRING UP THE PREMISES**

The premises used for medical purposes must be safely wired up in a workmanlike manner by qualified personnel.

Qualified personnel include but are not restricted to the following professional figures:

Electrical Engineer Electro-technical expert qualified to work as an electrician.

The wiring system of the environment (premises) in which installation is made must be in conformity with CEI 64-8 standards (IT regulations for premises used for medical purposes) and with applicable national laws and/or regulations.

The electrical system must be certified by an electrician qualified to issue the certificate of conformity.

The earth system must be certified as required by applicable regulations.

The electrical system must envisage laying cables suitable to the electrical characteristics of the Product to be supplied.

The electrical system must feature a protection fuse or thermal magnetic disconnection switch upstream of the Product, to avoid the risk of its being damaged following faults and/or malfunctions of the power mains.

## **CONFORMITY OF THE ELECTRICAL SYSTEM**

### **DECLARATION**

On the basis of the above points, it is hereby certified that the electrical system installed at:

*Customer's name and address:* \_\_\_\_\_  
 \_\_\_\_\_

is totally safe and made in a workmanlike manner.

*Name and address of calculating Engineer:*

\_\_\_\_\_  
 \_\_\_\_\_

**Signature**\_\_\_\_\_ **Date**\_\_\_\_\_

*Name and address of company which did the work:*

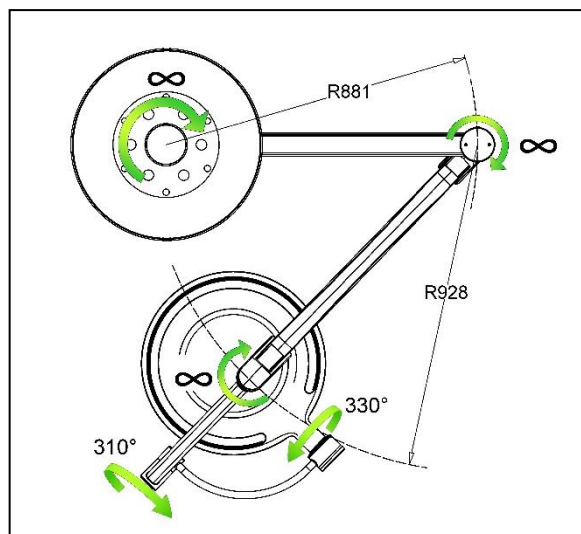
\_\_\_\_\_  
 \_\_\_\_\_

**Signature**\_\_\_\_\_ **Date**\_\_\_\_\_

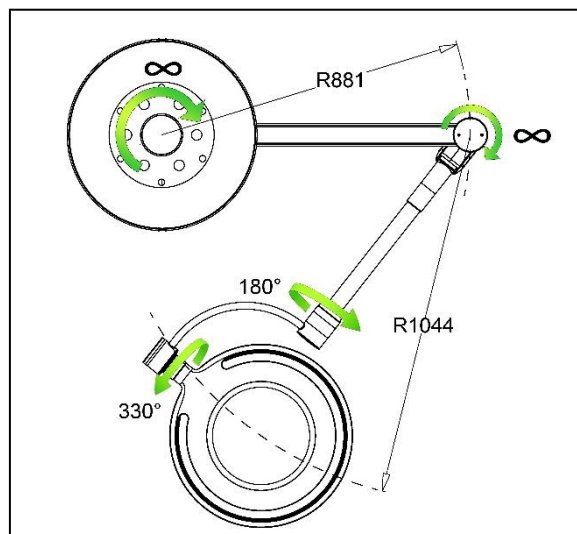
### **IMPORTANT:**

**TECNO-GAZ S.p.a. disclaims all liability for any type of fault or damage which might occur over time due to the electrical system installed in the premises not being suitable**

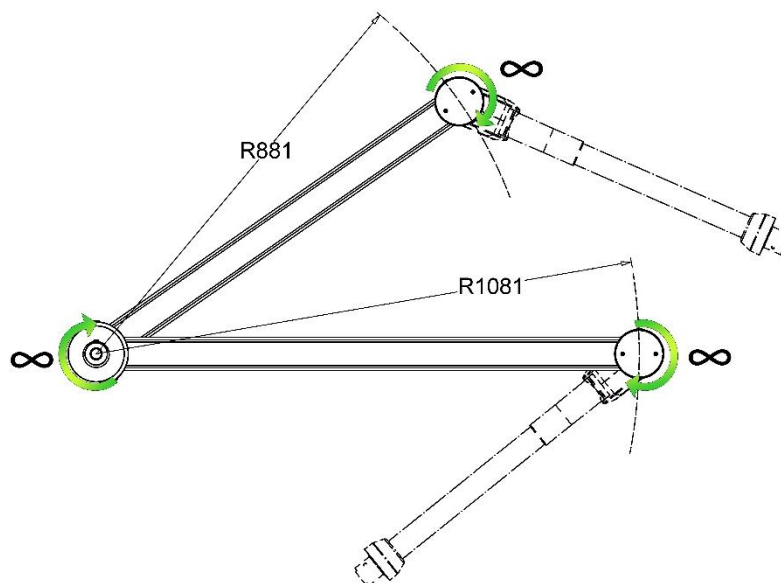
## PRODUCT OPERATING AREA



*SINGLE-dome model with Double Articulation*

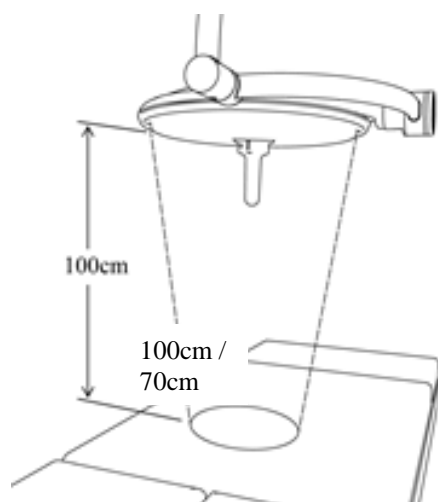


*SINGLE-dome model with Single Articulation*



*DOUBLE dome model*

## WORK DISTANCE



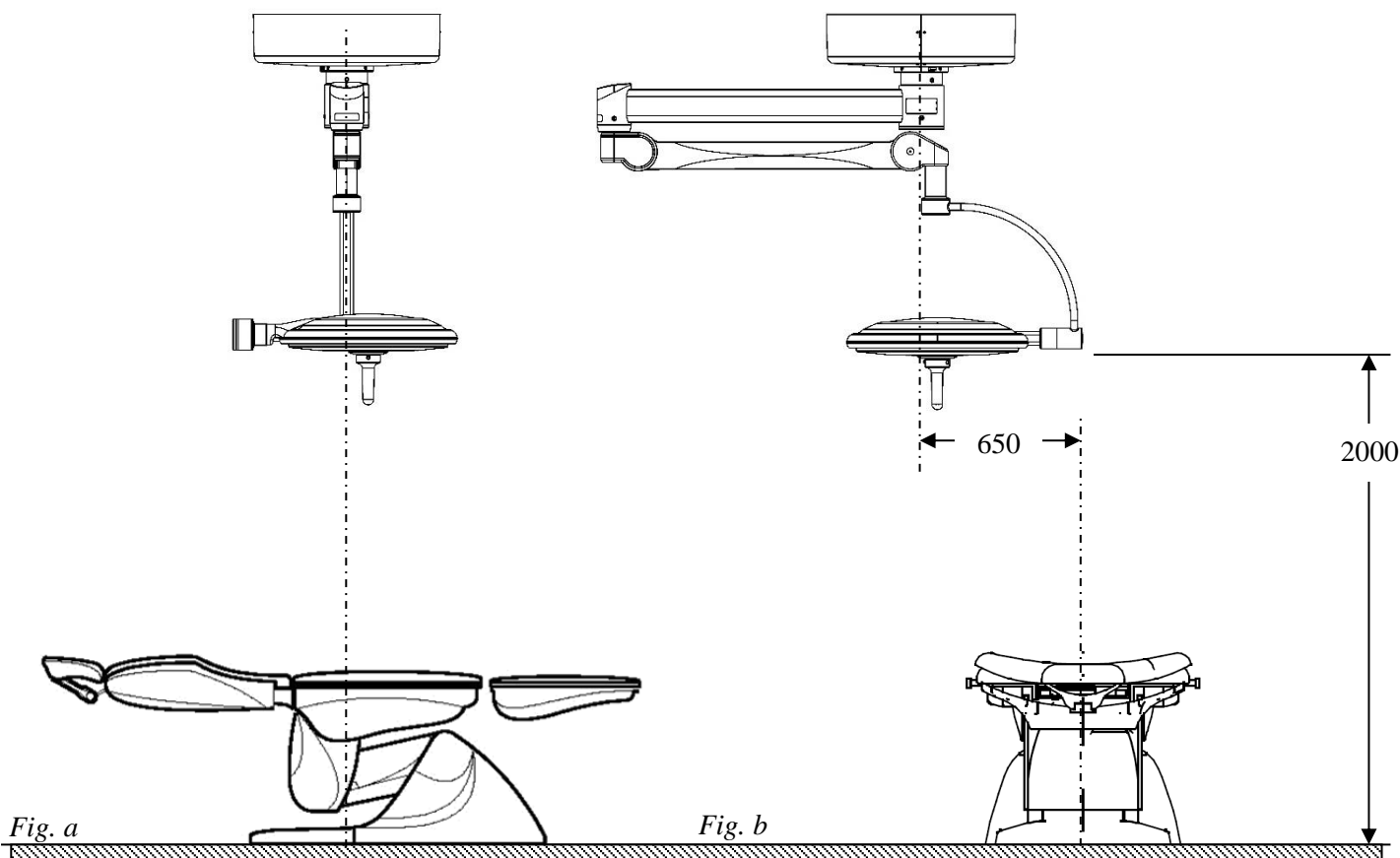
To optimise light intensity, the product is best used at a distance of:

- 100cm, in normal use conditions
- 70cm, in 'Dental Care' use conditions

The product nevertheless provides good light intensity even when used at distances similar to those recommended.

## LAMP FASTENING POINT

To ensure best device operation, it is best to secure the product as shown in the pictures below:



Fasten the plate to the ceiling so the anchoring tube is aligned along the same plane as the surgery lamp fitting seat (*Fig. a*) and about 650mm from the longitudinal axis of the surgery chair (*Fig. b*), <sup>(4)(5)</sup>.

(4) If there are obstacles that prevent the device from being fixed in the recommended position (such as ceiling lamps), this positioning must be carried out at the sole discretion of the end user, considering possible on-site solutions which prevent the lamp from interfering with the other devices present.

(5) In case of double structure lamps, consider the suggested dimensions with reference to the main lamp (lower dome).