

The recognized expertise of a specialist in innovative lighting solutions dedicated to the dental field.

This light allows you to work under two different luminous sources (incandescent and daylight) which ensure an optimal vision of luminosity, saturation and shade of colours.

This device is restful for eyes and very helpful for tooth colour analysis.

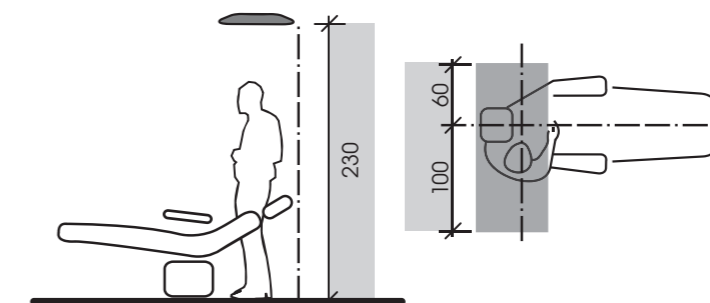
FEATURES

■ Features 3965

Illumination (Lux) at 1.5m	1 750
Colour temperature in K	≈ 6 444
Actual illuminated working area in m	3 x 3
Distance from examination surface in cm	150
Size L x W x H in cm	160 x 77,5 x 15
Net weight in kg	32
Between fixation axes in cm	80 x 34
Adaptable length	min.: 68 / max.: 92
Wattage	2,2A
Power source 230V- High frequency	HF (electronic ballast)



■ Installation plan



ADVICES

Gamain's staff is at your disposal for giving you pieces of advices and recommendations regarding the introduction of your recessed ceiling luminary in an appropriate way and environment.

MAINTENANCE

- Luminous sources replacement: Gamain recommends to replace all the luminous sources every two years.
- For an optimal light diffusion, please be watchful about the regular cleaning of the diffuser with a medical towel.

AFTER-SALES DEPARTMENT

Our after-sales department is at your disposal to answer all your questions and to help you in case of problem about the functioning of your device.



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3965



The first ceiling luminaire with two switching illuminants



Gamain has used its know-how, based on 80 years of experience serving dental specialists and colorimetry industries, to design the 3965 ceiling luminaire.

This ceiling luminaire allows an unfailing vision of colours and allows dental hygienists and prosthetists to work under two different luminous intensities: daylight (D65) and incandescent light (2848 K Illuminant).

Thanks to its attractive lines, this device is a decoration element, an assurance of visual comfort and an essential tool for shade appreciation.

LIGHTING, A CRUCIAL POINT FOR COLOURS VISION

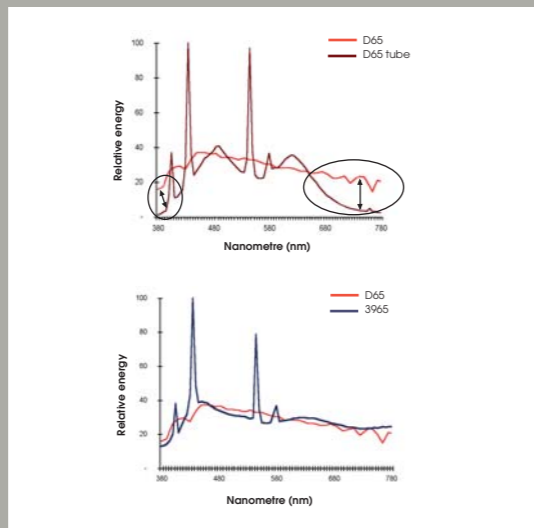
Vision implements the gathering of a light source, an object which reflects it and an observant. The visual acuity varies according to the lighting level. In order to prevent every causes of visual tiredness, it is better to work under white light with a spectrum which approaches as much as possible the one of the daylight to which the eye is adapted.

A shade difference can exactly be estimated only if it is lighted up by an illuminant which dispatching of energies in the spectrum is perfectly equilibrated and which colour's temperature is close to 6500 K (Kelvin)

A fluorescent lighting, even regulated on a colour temperature of 6500 K is not sufficient. There is a lack of vivid blue and deep red. Thus a colour located in these areas of the spectrum won't be differentiated.

Only a combination of several light sources allows an equilibrated lighting on the whole visible spectrum that is to say from 360 to 780 nanometres, and therefore permits to see all the colours.

Unlike artificial light, Gamain lightings allow an unfailing vision of colours thanks to a unique combination of several light sources. Gamain light fittings comply with International Commission on illumination's Illuminant D65(1). They provide a full and balanced spectrum from near ultraviolet to far infrared.



(1) Illuminant D65: in colorimetry, this light is called illuminant D65. Its colour temperature is 6504K and corresponds to the light coming from a blue sky exposed North, with 3/5 of scattered white clouds, at 10 am in the month of September under our latitudes and without any parasite reflexions.

ILLUMINANT CHOICE: THE FIRST CEILING LUMINAIRE WITH TWO SWITCHING ILLUMINANTS

Why a switching illuminant?

Use all the retinal cells and consequently better interpret the colour.

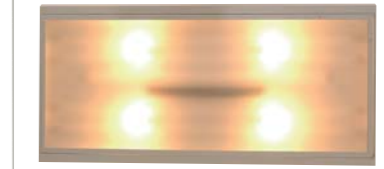
Thanks to the 3965 ceiling luminaire you can change the light:

- use the illuminant **2848 K (incandescent light)** for luminosity choice.
- use the **D65 illuminant (Daylight)** for shade and saturation choice.

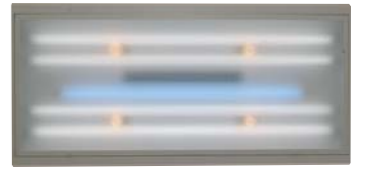
Amongst the operations usually done by the practitioners, shade taking is one of the most difficult. In deed, the luminosity of teeth, their saturation's degree and their shades must be analyzed.

The illuminant's switching will prevent the risk of shade difference (metamerism)

illuminant 2848 K
(incandescent light)



D65



Luminosity



Shade/ Saturation/ Translucence/ Other particularities

3965



3965 is the first dental lighting dedicated to the analysis of tooth colour parameters.

The shade's choice in case of ceramic or composite restoration will remain faithful to the original tooth's appearance.

To comply with hygiene standards, press the control button with the knee or the foot.

INCREASE YOUR VISUAL COMFORT

In daily working conditions, the visual system uses a quarter of our energy (because of contrast, distance, light colour adjustments, etc.)

Too often ignored, general lighting, whether it is inappropriate, is a cause of tiredness (visual and physical), but also of headaches, and eye troubles. Working only with a scialythic lamp burns retinal cells because of a too high intensity (20 000 lux). With the 3965 ceiling luminaire you will have a lighting level contained between 1 500 and 2 000 lux insuring 90% of visual acuity and a save of 90% of the retinal receivers.