

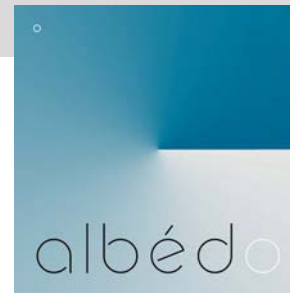
Lightings for dental and medical surgeries



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www.degrek.com

## Dental ceiling lights equipped with safe LEDs.

They preserve eye health, ensure the best comfort in the entire treatment room, and increase work performance.



## LED dental lightings

Albédo are designed with LEDs «Blue Control». They ensure a remarkable lighting quality, and fully meet the imperative standard of comfort, visual performance and safety of treatment.

### LED light spectrum «Blue Control» free from toxic blue light (HEV)

No blue toxicity, or acceleration of photopolymerisation

- biphosphor LED technology : controlled blue point  
Continuous spectrum for general practice and surgery
- complex D65 LED technology : no blue point, D65 certified as conforming to the IEC standard. D65 light source for cosmetic dentistry and orthodontics

### Northern Light

for an ideal lighting illumination in compliance with the strictest of standards:

**direct/indirect lighting** that provides balanced luminance distribution, minimal glare and no shadowing & contrasts in the room.

**Continuous and complete light spectrum, reproducing natural daylight**

### Lighting illumination

Lighting illumination is compliant with EN 12464-1 in the three areas of the dental treatment room: 1500 lux: treatment site (patient's face) | 1000 lux: specific working area | 500 lux: general traffic area.  
The illumination can be doubled with the function Lux+.

The practitioner's vision, acuity and health are preserved; dentistry becomes easier, less stressful and tiring.

### Specifically designed for medical & dental practice:

Albedo is IP50 compliant, designed for protection against dust, insect, sprays and splashes... The light housing is completely enclosed above and below. It can be easily cleaned with the simple wipe of a damp cloth, using a surface disinfectant (Dürr FD 333). Albédo is compliant with all medical and dental standards.

### Everyday Comfort

according to the version of the Lighting:

- Dimmer: régulation of the luminous intensity
- LUX+: significantly increase of the illumination (surgery/dermatology/orthodontics/esthetic medicine/lighttherapy)

### 2 lightings

- Albédo LEDd65 (complex D65 LEDs pure daylight)
- Albédo n8LED (biphosphor LEDs 5000K)

### Made in Swiss – Eco-friendly



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## Ceiling light with biphosphor LEDs

**Albédo n8LED** is designed for treatment and surgery rooms. Its very good color rendering, the beautiful uniformity of light distribution, the stability of its high-quality LED sources make it ideal for your practice.

### « Blue Control »: LED with controlled blue point

To avoid the potential toxicity of the blue, the luminance of the device and the spectral part of the blue were managed (colour 5000K as midday). Medical or dental work are thereby facilitated (no acceleration of polymerization), the practitioners view (vision, visual acuity) and health are preserved, stress and tiring are minimized.

### Continuous spectrum with excellent color rendering

The color rendering index being normatively invalid for LEDs, certified approved laboratories refer to visual rendering\*.

The visual rendering of Albédo n8LED is 2.5 times better than lighting fluorescent tubes «daylight».

\* ISO 9680 standard recommends measuring the color perception of the human eye rates

### Asepsie

Albedo is IP50 compliant (designed for protection against dust, insect, sprays and splashes...). It can be easily cleaned with the simple wipe of a damp cloth, using a surface disinfectant (Dürr FD 333).

	Albédo n8LED.0	Albédo n8LED.R	Albédo LED
Photobiological safety	yes	yes	total
Everyday comfort	good	very good	total
Work performance	good	very good	perfect
LUX+/Régul. functions	no / no	yes / yes	yes / yes
illuminant D65 CIE*	no	no	yes
average UGR	<16	<16	<13
consumption (W)	125	125	220 to 260
driver LED	1	1	3
sources (5 years warranty)	biphosphor LEDs	biphosphor LEDs	complex LEDs
luminance max: cd/m <sup>2</sup>	< 6000	< 6000 / 10000	1825 / 3074
luminous flux (lumen)	11000	11000 / 13000	13 318
temperature of colour direct/indirect	5000K / 5000K	5000K / 5000K	D65 / 5000K
indice protection (IP)	50	50	50
ceiling height	2,4 to 3m	2,4 to 3m	2,4 to 3m
treatment room surface	9 to 15 m <sup>2</sup>	9 to 15 m <sup>2</sup>	9 to 15 m <sup>2</sup>
dimensions (mm) / weight (kg)	1260 x 400 x 75 / 13.5	1260 x 400 x 75 / 13.5	1260 x 400 x 5

Measured in our European-certified ISO 17025 EN IEC approved measuring laboratory. Produced in Switzerland.  
\*Certified according to the D65 illuminant defined by the CIE (BS950-1/D65 CIE D6500 visible part of emitted light 430nm-650nm) (photobiologic security) european standards EN NF 12464-1 (professional lighting) & EN62471



albédo

## Ceiling light with complex LEDs D65

**Albédo LED d65** ensures an exceptional lighting quality. It meets the requirements of aesthetic dentistry by reproducing the D65 spectrum of the daylight for a perfect shade recognition.

### D65 spectrum of the pure daylight

Albédo LEDd65 is certified according to the D65 standard illuminant defined by the CIE (International Commission on Illumination). All colours are present and visible to the human eye at the same intensity. The spectral curve of the Albédo LEDd65 ceiling light matches the D65 daylight curve in the visible range.

Colour recognition is perfect. The D65 illuminant standard is consistently adhered to, regardless of the light intensity and over the entire lifetime of the ceiling light.

### Optimum comfort (UGR)

The Unified Glare Rating (13) is even better than required by the standard for the choice of shade (16). For the surgical team, the appliance appears to be switched off. Only the work space appears to be illuminated. Comfort is total.

### Light output and low luminance of the illuminated surface

Due to the limitations of LED technology, the micro-prismatic CLD has been specifically designed to completely diffuse the brightness inherent to LED technology and thereby ensure eye safety during use.

### Secure LED lights

Spectrum has no toxic blue point: HEV (High-Energy Visible Light) blue light transmission is controlled. It meets the photobiological conditions essential for eye safety. There is no blue toxicity, or acceleration of photopolymerisation

### Aesthetic, orthodontic et dental laboratory:

- accurate tooth shade determination, at chair and at any hour: color and surface micro-geometry, thickness and brightness of the enamel, dentin opalescencr
- accurate view of the natural teeth during reconstruction
- all aesthetic reconstruction work without an operating lamp on labial surface of the anterior tooth region
- all orthodontics work without an operating lamp
- no acceleration of polymerisation effect on composites and adhesives
- aesthetic stain, viewing in real time the actual results of work

d65

D65

10 / 11,8

Swiss ISO9001:2000. LED light 430nm-650nm) (photobiologic security)

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