Healthcare Lighting

In modern and complex healthcare environments, all lighting should be designed with human-centered solutions.

Controllable lighting systems that ensure patient comfort and staff efficiency while also requiring low maintenance and efficient energy use should be preferred.
As ARLIGHT, we aim at your service with our high quality fixtures and accurate lighting solutions.

For correct lighting;

- Luminance level (Lux),
- Color rendering (CRI),
- Glare (UGR),
- Homogeneity (U0),
- Color Temperature (Kelvin) criteria must be taken into consideration.

Patient Rooms

Brightness Level (Lux)	100-300 lx
Color Value (CRI)	>90
Glare Value (UGR)	<19

Increasing patient comfort positively affects the healing process. The patient room should be considered as a comfortable, relaxing, independent space. Lighting should be maintained in order to provide an comfortable ambiance.
The light level must be sufficient and facilitate examinations that must be performed in a safe and convenient manner by the doctor.

Sterile Environment

Operating Rooms, Medical Care Rooms, Recovery

Brightness Level (Lux)	1000 lx
Color Value (CRI)	>90
Glare Value (UGR)	<19

It is recommended that fixtures selected for sterile environments be easily cleaned, have a smooth surface, and be dust-free. Also, the integrated room sensor are designed with easy access to keep medical devices and appropriate working light for healthcare personnel. In surgery, the operated area is strongly illuminated with special lighting to reveal colors and skin tones as naturally as possible. The lighting in the rest of the operating room should be adjusted to create a comfortable environment for the surgeon and staff. Lighting with green light that contrasts with red and controllable light systems should be prioritized in operating rooms. With such a design, eye comfort and concentration increases.

Examination Rooms

General Brightness Level	500 lx
Inspection Brightness level	1000 lx
Color Value (CRI)	>90
Glare Value (UGR)	<19
Colour rendering index (Ra)	>90

A warm, friendly atmosphere helps patients feel calm, safe and relaxed during examinations.
Warm lighting with the right color temperature and color rendering, direction can distinguish the subtleties color nuance on a patient's skin. Correct positioning of fixtures is very important. It should not create glare or reflection points on computer screens.

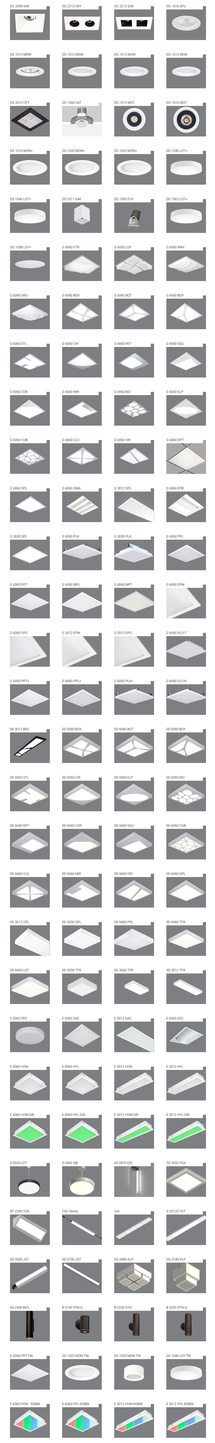
Scanning Rooms

Brightness Level (Lux)	300 lx
Color Temperature (Kelvin)	3000-4000 K
Color Value (CRI)	>90
Colour rendering index (Ra)	>90

A quiet atmosphere should be provided for the patient by choosing lighting with low glare value.

General Area

Brightness Level (Lux)	200 lx
Color Value (CRI)	>80
Glare Value (UGR)	<19
Colour rendering index (Ra)	>80

Corridors are the first impression people make about the hospital.
Ceiling and walking areas should create a comfortable, simple and warm lighting atmosphere with a high amount of indirect light.
Main circulation routes should be adequately illuminated so that patients, visitors and staff can navigate quickly and safely.

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