

Hospital Luminaire

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ospital Luminaire



St. Joseph hospital / Operating room

Operating theater

The high bright peripheral lighting around the operating field prevents adaptation problems during surgery. The Hospital luminaires are designed to avoid reflections (glare free luminaire) and to meet the general requirements recommended in Din 5035.

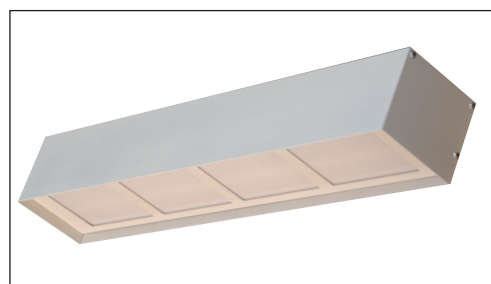
Astra Hospital luminaires have been specially created to facilitate the cleaning process (rated IP 65), in particular to resist chemical attacks from cleaning agent and disinfectant.



Clean Room 0701



Emergency 0702



Overhead Bed Unit 0703

Clean Room CR

Function:

This Luminaire is designed for an intensive use in hospitals, laboratories, operating theatres, anaesthesia and sterilisation rooms as well as food, electronic and pharmaceutical industries.

Construction:

A robust and solid construction characterizes this fitting with its tightly sealed corner ends by advanced welding techniques.

The body of steel metal is treated and phosphated prior to its painting electrostatically with curable epoxy polyester powder, a coating which is highly resistant to chemical of cleaning and disinfecting agents.

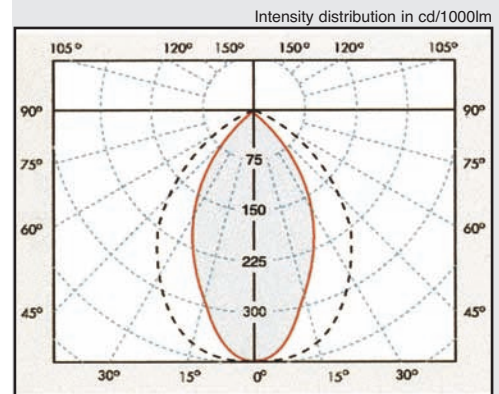
Lighting:

The lighting flux is controlled by the evolved double parabolic Astra diffuser Cat. 2 made from high quality matt anodized aluminium, in order to meet the european requirements of low glare.

All other types of Astra reflectors can be installed upon request in this fitting.



AR - CR 0701



Efficiency 50.16%

	lamps	L	L1	W	W1	H
AR 236 CR	2x36W	1261	1234	356	328	93
AR 336 CR	3x36W	1261	1234	476	448	93
AR 258 CR	2x58W	1561	1534	356	328	93
AR 418 CR	4x18W	658	630	658	630	93
AR 240 CR	2x40W PL	596	568	596	568	103
AR 255 CR	2x55W PL	596	568	596	568	103



al Luminaire

GLASS SPECIFICATION SHEET

APPLICATION For Hospital Luminaire.

Polished flat edge (Tempered)

TECHNICAL SPECIFICATIONS:

- Thickness Tolerance

: ± 0.4 mm Caliper

- Size Tolerance

: ± 1 mm Caliper

- Chips

: ≤ 1 mm

- Bubble Center within

: ≤ 0.8 mm

- Miscellaneous Center within

: ≤ 0.5 mm

- Scratch Center within

: very deeply scratch, middle scratch ≤ 5 mm

- Bend

: ≤ 0.5 mm

- Edge treatment

: 4R400+\$R1 Polished Flat Edge

- Impact Test

: to take the steel ball of diameter 38 mm (227 g) fall test piece by height of 2 m.

the result should be no breakage

no account broken piece. (according to BS5282)

: select area of coarsest fracture and draw 50 mm square, the number of particle in the area should be not less than 50.

- Broken Pattern

: Keep the glass in an oven with 220°C ($\pm 10^{\circ}\text{C}$) for 30 minutes, glass should not be broken.

- Heat Resistance Test

- Quenching Test

: To put the test in furnace and heat up to 220°C ($\pm 10^{\circ}\text{C}$), keeping the situation for 30 minutes, then put the test piece in the water of 20°C . the result should be no breakage.

- Remark

: Same as center.

- Keeping condition

: Indoor temperature 25°C .

Relative humidity 60%

the glass should be complete packaged.

- Heavy Scratch

: Fingernail may feel lightly

- Light Scratch

: Fingernail can not feeling

Maintenance and Electrical Connections:

The interior of the luminaire is accessible through a tempered high quality silicate glass (see technical data No 1) which can be hung from the fitting with two stainless steel cables during maintenance operations. The locking screws are attached to the glass permanently for practical reasons.

Conventional gear with capacitors for power factor correction and radio interference suppression or high frequency electronic ballasts can be supplied in this luminaire.

Gear and installations for T5 lamps can also be supplied upon request.

Protecting degree IP65:

The main aspect of this fitting is its high degree of protection.

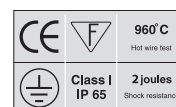
Its tight body is covered with a protective glass sealed with polyethylene base gasket and tightened by screws equipped with O-ring seals.

The borders of the fitting are also provided with gaskets to ensure a good seal with the false ceiling structure.

All this renders the fitting fully dust proof and give it a protection from water jets in all directions - IP65.

Conformity:

The ASTRA AR 236 CR meets the European norms EN 60598 and CE.



Emergency

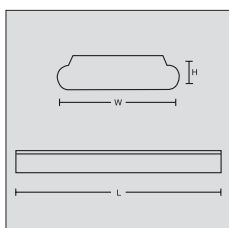


ALE 0702

This range of emergency luminaires is manufactured according to EN 60598 regulations aiming at robust, functional and elegant fitting intended for a general public area use.

This is a self contained emergency fitting with body made of extruded aluminium painted white with epoxy polyester powder and opal diffuser.

All electric accessories inverters, batteries and chargers are manufactured according to european norms.



MOUNTING CODE

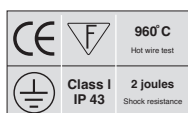
WF	Wall Fixed
SD	Suspended
DS	Double Sided

MODULES CODE

M	Maintained
NM	NonMaintained

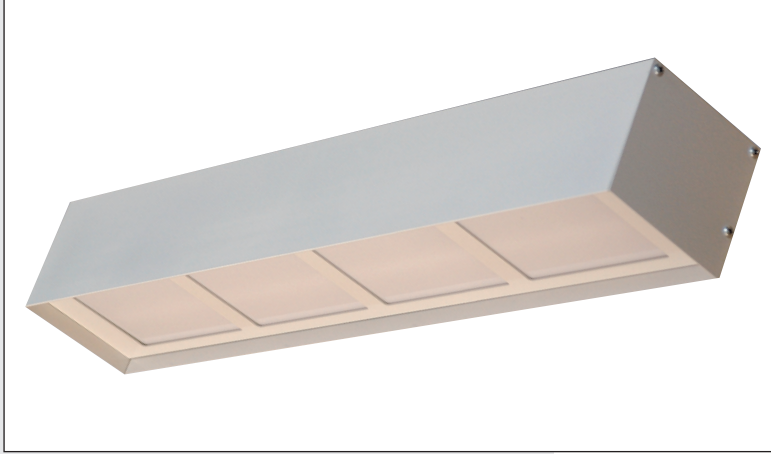
Article*	lamps	Autonomy	L	W	H
ALE8M1	1x8W	1 hr	320	65	150
ALE8NM1	1x8W	1 hr	320	65	150
ALE8M3	1x8W	3 hr	320	65	150
ALE8NM3	1x8W	3 hr	320	65	150

* specify module and mounting code



al Luminaire

Overhead Bed Unit



OBU 0703

Overhead Bed Unit is an essential element in hospital rooms which presents different functions in order to meet international requirements,

- Direct lighting for reading 1x18 W fluorescent T8 bulbs.*
- 2x26W PL lamps are usually used for indirect lighting.*
- Adequate and agreeable lighting in order to treat patients.*

Fixtures can also be designed linear, from wall to wall, in order to incorporate oxygen pipes and electrical wires with all plug in elements.

This special luminaire is produced in extruded aluminum and painted with white epoxy-polyester electrostatic powder coating.

	lamps	L	W	H
OBU	1x18W T8 + 2x26W TC	650*	111	101.5

* L on request