



Registered design

### + Design & Ergonomics

The pure form and the thinness of LYSA wall lighting unit make it discreet in normal care room.

Low and extra low voltage equipment, integrated to the duct, are within easy reach of the users.

### + Innovation

Available in LED version, LYSA wall lighting unit has an efficient and comfortable optical system for patients and caregivers.

Integration of dynamic lighting simulating a 24 hours light cycle, will be helpful for the patient well-being.

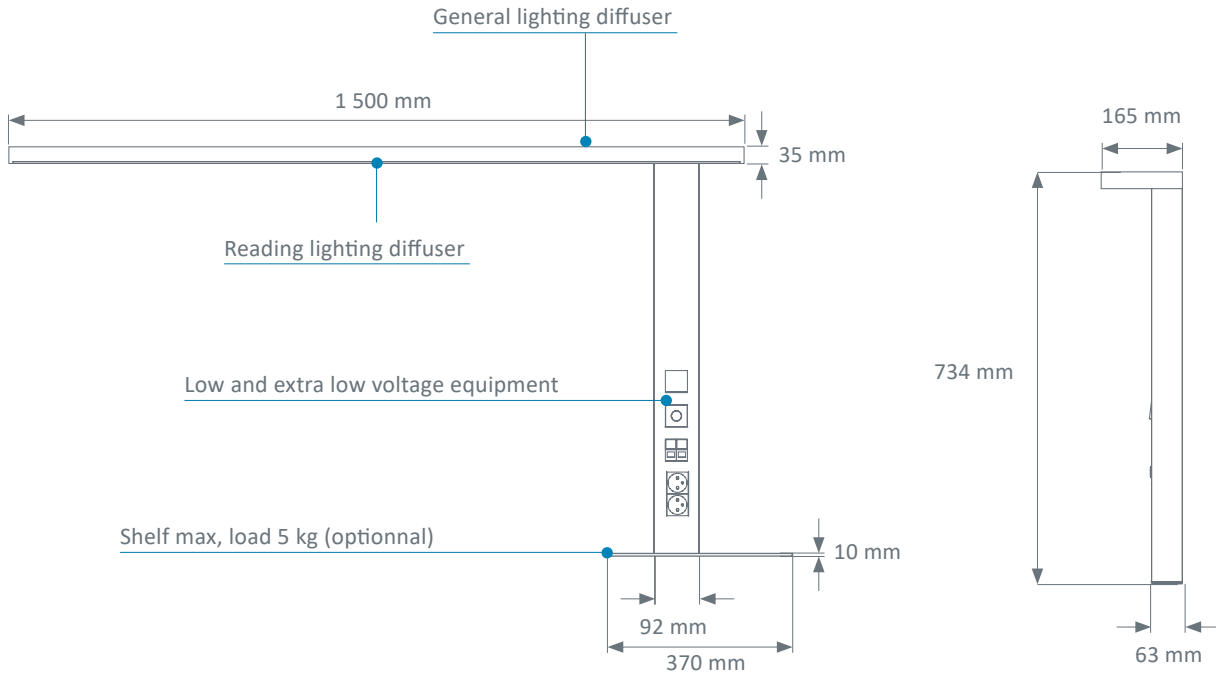


# TECHNICAL FEATURES

## Front view

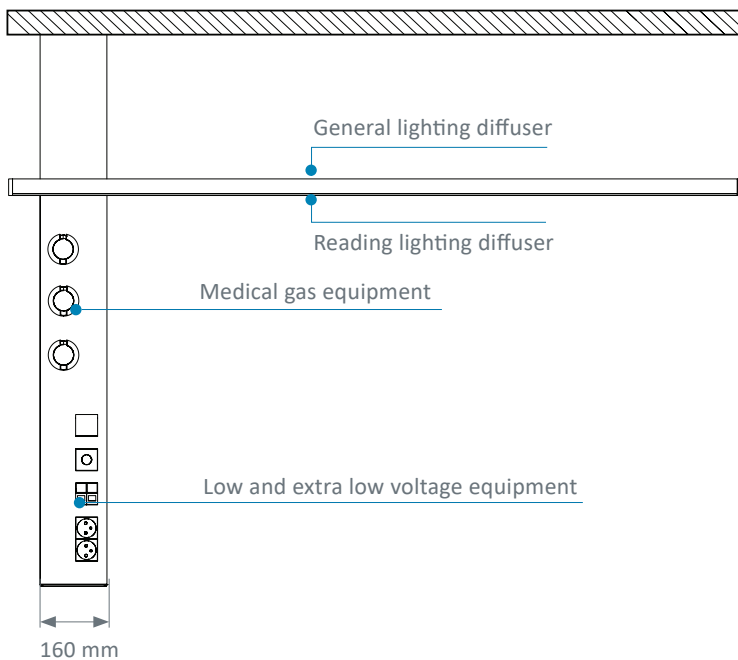
## Side view

### LYSA with electrical equipment

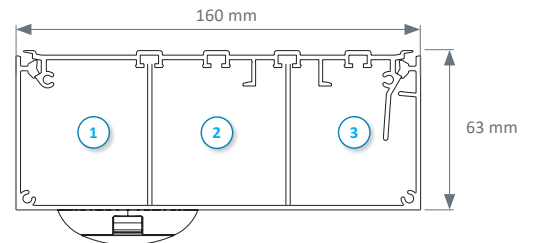


### LYSA with electrical and medical gas equipment

## Cross-section



- ① Medical gas compartment
- ② Low voltage compartment
- ③ Extra low voltage compartment



## Colours

	Grey RAL 9006	Grey RAL 9007	White RAL 9016
LYSA	●	●	●

## CONTROLLED LIGHTING

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The LYSA bed head unit is ideal for rest homes, retirement homes, and nursing homes. The quality of the light promotes the comfort and well-being of patients and healthcare professionals.

### General lighting

- Clear polycarbonate indirect diffuser
- MIRO 20 Silver® Aluminum reflector



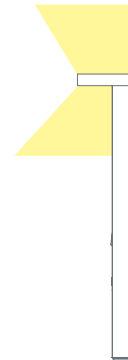
### Reading lighting

- Satin-finish polycarbonate direct diffuser
- MIRO 20 Silver® Aluminum reflector



### Caring lighting

Caring lighting combines direct (reading) lighting with indirect (general) lighting.

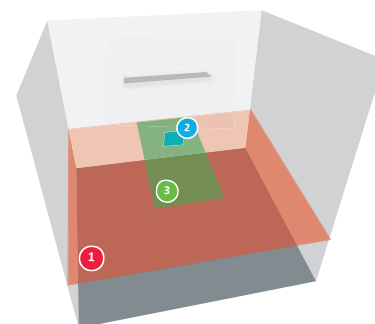


# EFFICIENT LIGHTING

## Lighting study

- Standard room
- Dimensions of the room: 3 m x 3 m, ceiling clearance 2.5 m
- Reflection coefficients: ceiling 7, walls 5, and floor 3
- Coefficient of depreciation 0.83
- Recommended average illumination level :

General lighting 100 lux, reading lighting 300 lux and caring lighting 300 lux



	<b>General lighting</b> Virtual general lighting plane of a surface equal to the one of the room, located 0.85 m above the floor (3 m x 3 m for a single room).	<b>Reading lighting</b> Virtual reading plane 0.3 m x 0.3 m inclined at 75° located 1.1 m from the floor and 1 m from the wall where the light fitting is mounted.	<b>Caring lighting</b> Virtual examination plane 2 m x 0.9 m located 0.85 m from the floor, centred in width and 0.1 m from the wall.
<b>LED</b>	<b>3 Ft module</b> 	<b>2 Ft module</b> 	<b>General and reading lighting combined</b> 
Consumption	33,2 W	10,8 W	44,9 W
Average lighting	125 lx	353 lx	397 lx

## Lighting power

Lighting	Modules power	Types of sources	Color Temperature	Luminous Flux <sup>(1)</sup>	Consumption	System Efficiency	Driver(s)	Efficiency energy class
General lighting	28,7 W (3 Ft)	LED	3000 K 4000 K	5039 lm (length 1050 mm)	33,2 W	151,9 lm/W	Fixed / DALI	A↑G D
	35,3 W (4 Ft)	LED	3000 K 4000 K	6255 lm (length 1300 mm)	40,8 W	153,4 lm/W	Fixed / DALI	A↑G D
General lighting (Dynamic lighting)	38,9 W (3 Ft)	LED	2700 K to 6500 K	5000 lm	44,9 W	111,4 lm/W	DALI	A↑G E
	47,2 W (4 Ft)	LED	2700 K to 6500 K	6200 lm	54 W	114,8 lm/W	DALI	A↑G E
Reading lighting	8,9 W (2 Ft)	LED	3000 K 4000 K	1710 lm	10,8 W	158,8 lm/W	Fixed / DALI	A↑G D
Night light	3,1 W	LED	3000 K	335 lm*	4,9 W	68,1 lm/W	Fixed	A↑G F

<sup>(1)</sup> All the luminous flux indicated in the brochure are based on the flux of the LED modules also known as system flux.

Luminaire output flux = (Module flux) x (optical efficiency), the optical efficiency of the luminaire is indicated in the Eulumdat file (LDT line 23) available for download on our website or on request.

**Dynamic Lighting**



The LYSA bed head unit is available with dynamic lighting.  
For more information, please read the dedicated brochure.



## Norms & certifications

- EN ISO 13485: Quality management systems
- CE Medical Devices Marking according to 93/42/EEC Directive
- EN ISO 11197: Medical supply units
- EN ISO 7396-1: Medical gas pipeline systems - Part 1
- European rules for caring centers lighting

Bed head units, Wall lighting units, Ceiling pendants, Suspended Beams & Columns,  
Special care bed head units, Sealed lightings, Medical gas monitoring & Biomedical Accessories



\* Energy Efficiency Index - All specifications here in are provided for information purposes only and may be modified by TLV without notice. (00) - Update(LJ/MM/AA) - 29/02/2023