

**CIBSE**

LIG054  
LIG058  
LIG910  
LIG9004

**X**  
SERIES

## Product Datasheet

**DARAY**<sup>®</sup> | **X**<sub>2</sub>  
Medical

# X240 LED Exam Light

## Introduction

The X2 Examination Light is designed specifically for use during medical consultation and diagnosis. Utilising LED technology, this general examination light has been developed to provide an intense beam with excellent colour rendering properties.

The X240 forms part of the **X2 Series**, which comprises the following models: X200, X210, X230, X240.

All models in the X2 Series offer identical light output, though with differing mounting/wiring options:

**X200** - Same as X240, though with a flexible 'gooseneck' instead of the articulated (spring-balanced) arm.

**X210** - Available as a wall/rail mount solution with an integrated transformer, to be hardwired.

**X230** - Provides a panel mount bracket and an angled neck for mounting to bed-head trunking, to be hardwired.

**X240** - Same as X200, though with an articulated (spring-balanced) arm instead of the flexible 'gooseneck'.

**Datasheets are available for each model in the X2 Series.**

## Standard Features

- World-renowned LED technology
- Variable intensity
- Spring-balanced arms for versatile movement and solid positioning
- Excellent colour rendering - for totally natural skin tones
- BioProtect<sup>®</sup> anti-microbial coating to assist in infection control
- Fully positionable light head
- Various mounting options available
- Energy-efficient, environmentally friendly, and a fully recyclable product

## Available Options

X240LW	DARAY X2 wall mounted LED examination light
X240LR	DARAY X2 rail mounted LED examination light (rail sold separately - see XRAIL below)
X240LD	DARAY X2 desk clamp LED examination light
X240LDS	DARAY X2 desk stand LED examination light
X240LFDM	DARAY X2 fixed desk mount LED examination light
X240LM	DARAY X2 mobile LED examination light
X240LE1	DARAY X2 hardwired BESA wall mount LED examination light (special order)
X240LE2	DARAY X2 hardwired wall mount LED examination light (special order) - with separate transformer
X240LE3	DARAY X2 hardwired panel mount LED examination light (special order) - with separate transformer
X240LE4	DARAY X2 hardwired wall mount LED examination light (special order) - with <b>integral</b> transformer
XRAIL	1m Medical Rail for mounting X240LR
XBB12	Battery back-up options available, please call

Bespoke solutions available, please call

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# Technical Specifications

Light Source	LED
Light Intensity (Lux) @ 0.5m	32,000 Lux $\pm$ 5%
Light Intensity (Lux) @ 0.75m	14,000 Lux $\pm$ 5%
Light Intensity (Lux) @ 1.0m	8,000 Lux $\pm$ 5%
Light Intensity Adjustment Range	10 - 100%
Colour Temperature (Kelvin)	4,300K $\pm$ 500
Colour Rendering Index (CRI)	95
Colour Rendering (R9)	88
Light Field Diameter (D50)	@ 0.5m: 120mm
	@ 0.75m: 135mm
	@ 1.0m: 180mm
Light Field Diameter (D10)	@ 0.5m: 230mm
	@ 0.75m: 325mm
	@ 1.0m: 460mm
Number of LED's	3
Power Consumption	12W 0.1A
Average Working Life	>50,000 Hours
Input Supply Rating	100 - 240V AC 50/60 Hz
Output Supply Rating	12V DC 1A
Temperature Rise on Patient/User	$\leq$ 2°C
Warranty Period	5 Years
NHS E-Class Code	FBU, FKR
Commodity Code	9018 908400
GMDN Code	12276

## Notes

The X2 Series has a low 'total cost of ownership', costing up to 75% less to run than equivalent halogen lights. This light has around 50,000 hours of life from the LED light engine equating to around 25 years of clinical use (based on 5.5 hours clinical use per day).

This model requires minimal maintenance and has a smooth, fully enclosed BioProtect® head to assist with the management of infection control. This is an ideal light for GP surgeries and clinics where flexibility and performance are crucial. Choose between many different mounting types dependant on your application, including: wall, mobile, and desk mounting options. Hardwired options also available.

## Medical Approvals/Certificates

The product(s) on this datasheet adhere to the following standards in line with the 93/42/EEC Medical Devices Directive - Classification: Class 1, Rule 1.

EN 13485

EN 14971

EN 9001

EN 60601-1

2014/35/EU Low Voltage Directive

EN 60601-1-2

EN 60601-1-6

EN 60601-2-41

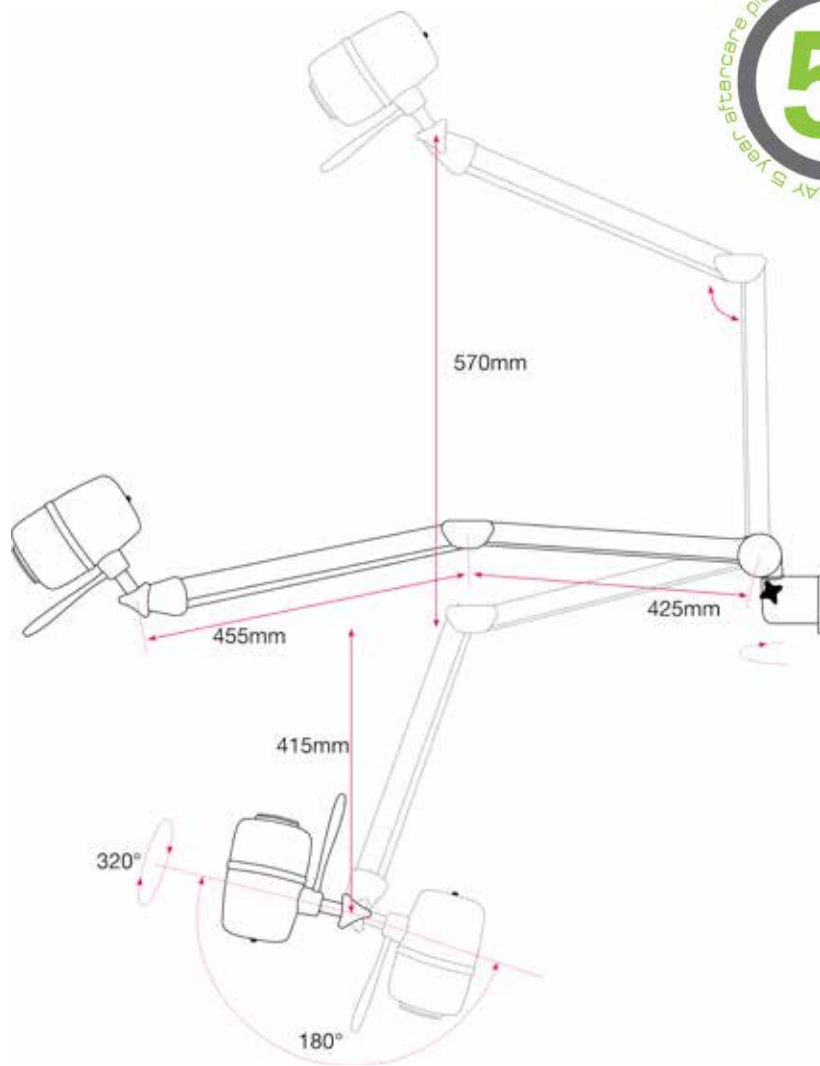
EN 1041

EN 60598-2-25

# Technical Drawings

## Wall Mounted

Order code: X240LW  
 Total weight: 1.85kg  
 Same dimensions apply for all other versions



Recommended mounting height shown is for all wall and rail mount versions. Actual location should be dependent on intended use and desired reach.

Common sense should always prevail.

## Mounting Options

These are DARAY's standard mounting options, and are all **interchangeable**.



Shown here are the hardwired special order mounting options, and are **not interchangeable**.



# Image Gallery



Order code: X240LE1



Order code: X240LE2



Order code: X240LE3



Order code: X240LDS

Hardwired Wall Mount  
with integral transformer  
Order code: X240LE4



Transformer housed in box at base of neck.  
Box mounts directly to the wall.



Mobile version  
Order code: X240LM

1700mm



Control switch  
on rear of head



3-LED Module  
offering 32,000 Lux  
@ 0.5m

Wall Mounted  
Order code: X240LW



Rail Mounted  
Order code: X240LR  
(shown here on XRAIL Medical Rail -  
available separately)

