

**CIBSE**

LIG054  
LIG058  
LIG910  
LIG9004

**DARAY**<sup>®</sup>  
Medical

Product Datasheet

# Examination Light

# X240

## LED



## Introduction

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

All models in the X200 LED Range 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 this Range.**

## 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® 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 X240 LED wall mounted examination light
X240LR	DARAY X240 LED rail mounted examination light (rail sold separately - see XRAIL below)
X240LD	DARAY X240 LED desk clamp examination light
X240LDS	DARAY X240 LED desk stand examination light
X240LFDM	DARAY X240 LED fixed desk mount examination light
X240LM	DARAY X240 LED mobile examination light
X240LE1	DARAY X240 LED hardwired BESA wall mount examination light (special order)
X240LE2	DARAY X240 LED hardwired wall mount examination light (special order) - with separate transformer
X240LE3	DARAY X240 LED hardwired panel mount examination light (special order) - with separate transformer
X240LE4	DARAY X240 LED hardwired wall mount examination light (special order) - with <b>integral</b> transformer
XRAIL	1m Medical Rail for mounting X240LR (includes wall fixings)
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 X240 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

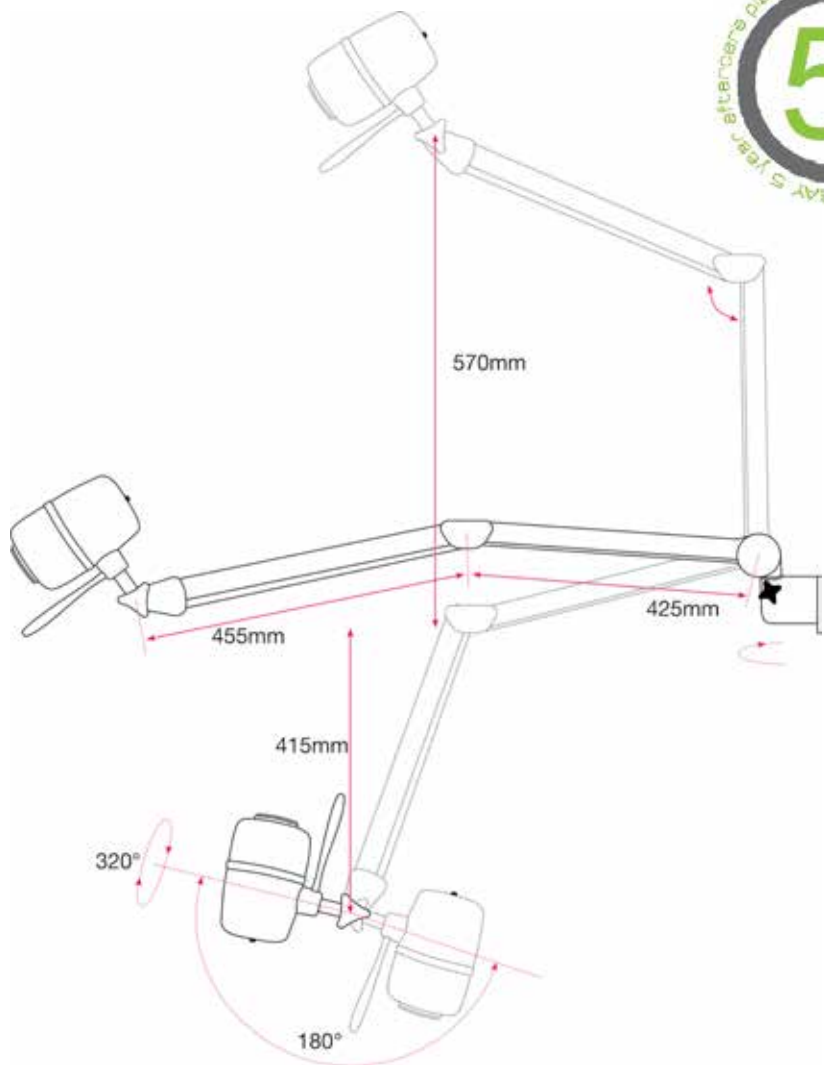
EN 60601-2-41

EN 1041

EN 60598-2-25

# Technical Drawings

X240 LED Wall Mount  
 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**.

<p>PIVOTD2 Desk Clamp</p>  <p>X240LD</p>	<p>PIVOTR Rail Clamp (shown on Medical Rail)</p>  <p>X240LR</p>	<p>PIVOTFDM Fixed Desk Mount</p>  <p>X240LFDM</p>	<p>PIVOTMWB Mobile Weighted Base</p>  <p>X240LM</p>	<p>PIVOTW2 Wall Bracket</p>  <p>X240LW</p>
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Shown here are the hardwired special order mounting options, and are **not interchangeable**.

<p>Hardwired BESA Mount</p>  <p>X240LE1</p>	<p>Hardwired Wall Mount or Panel Mount with separate transformer</p>  <p>X240LE2      X240LE3</p>	<p>Hardwired Surface Mount with Integral Transformer</p>  <p>X240LE4</p>
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\*UK Customers only

# Image Gallery

X240 LED Hardwired Wall Mount  
with integral transformer  
Code: X240LE4



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



X240 control switch  
on rear of head

