

Square shadowless light (FPQ)

LS-FPQ series · Shadowless lights · 6 models



Square shadowless light with a special emitting structure for uniform emission over the working area; efficient low-angle illumination strengthens surface characteristics and highlights defect contrast, for workpieces that need a balanced surface with reduced reflection or flare.

Features

- Special emitting structure, uniform emission in the effective working area
- Efficient low-angle illumination, strengthens surface characteristics, highlights defect contrast
- For workpieces that need a balanced surface and reduced reflected light or flare
- Customizable: Length and width, Colour & colour temperature, Cable length, Installation method
- UV & IR versions can be customized as required

Applications

- BGA, GFP position inspection (as printed)
- Integrated circuit material strap inspection
- Lead pin pitch inspection
- Integrated circuit character inspection
- Metal surface scratch inspection
- Imaging example: needle column vertical inspection on electronics (LS-FPQ120120-W), white needle shows distortion clearly

Colours

R	620-630 nm
G	525-530 nm
B	465-470 nm
W	6600 K

Common specifications

Voltage	24 V
Min. size	48 mm x 48 mm
Max. size	250 mm x 250 mm
Recommended working distance	10~150 mm

FOV	1~200 mm
Colour temperature of white	6600 K
Cable length (drawing)	500 mm
Operating temperature	0-50 °C
Operating humidity	20-85% (non-condensing)
Life-span	50000 h (to 50% of factory default luminance)
Adapted controllers	Strobe controller, analog controller, digital controller
Extension cable options	PVC extension cable (high flexibility, bending and high-temperature resistant, for use inside equipment); high-flexibility extension cable (harder, more abrasion resistant, for drag-chain production lines)

Ordering code: LS-FPQ####-R/G/B/W/IR/UV (first ## = length, second ## = width; last field = colour)

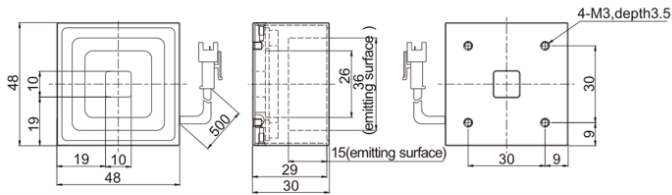
Models

Model	Power (R)	Power (G/B/W)	Weight	Dimension drawing no.	Viewport (mm)	Emitting surface (mm)
LS-FPQ4848 colours: R, G, B, W	0.7W	1.2W	89 g	1	10 x 10	-
LS-FPQ6060 colours: R, G, B, W	1.0W	1.4W	140 g	2	38 x 38	-
LS-FPQ11660 colours: R, G, B, W	1.4W	2.2W	278 g	3	-	104 x 56
LS-FPQ120120 colours: R, G, B, W	7.2W	10.6W	578 g	4	-	108 x 116
LS-FPQ150150 colours: R, G, B, W	7.7W	11.5W	731 g	5	-	138 x 146
LS-FPQ250250 colours: R, G, B, W	13.0W	19.7W	1302 g	6	-	238 x 246

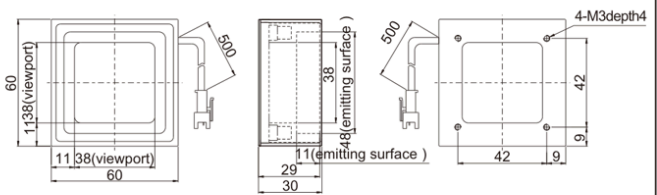
More values per model (Common model) are on each product page.

Dimensions

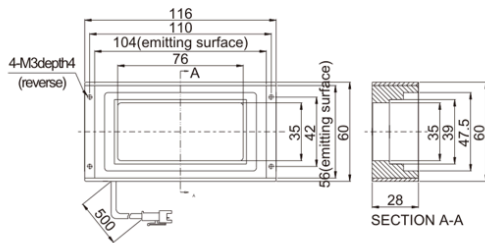
1.LS-FPQ4848



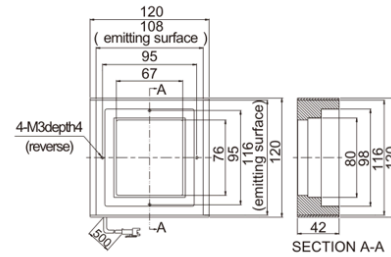
2.LS-FPQ6060



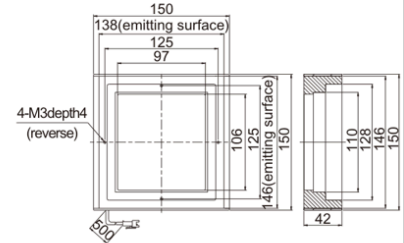
3.LS-FPQ11660



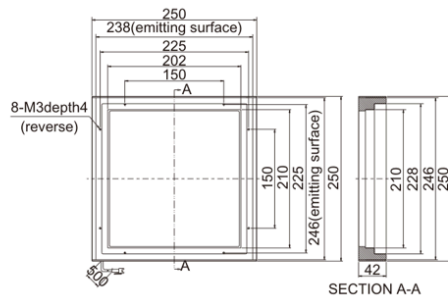
4.LS-FPQ120120



5.LS-FPQ150150

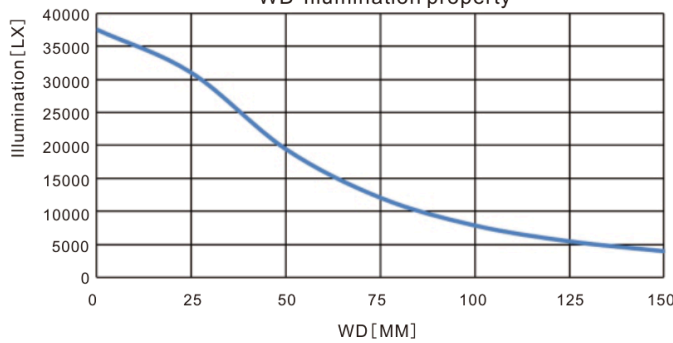


6.LS-FPQ250250

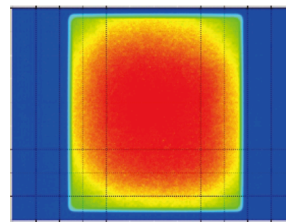


Performance

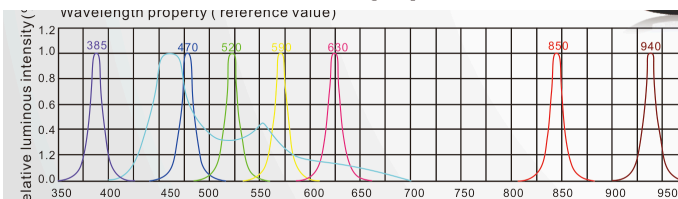
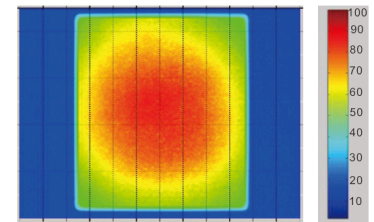
WD-Illumination property



LWD=20 FOV: 68x51mm



LWD=50 FOV: 68x51mm



Product views

