

Collimated backlight (2FLP series)

LS-2FLP series · Backlights · 18 models

Collimated
backlight with
SMD LEDs,
luminous areas
from 50 x 50 to
400 x 400 mm,
for profile and
dimension
measurement.

Features

- Collimated (parallel) backlight for sharp edges in measurement
- Four-sided M3 nut grooves and bottom side installation
- Three-colour RGB light source, size and height, wavelength/colour temperature, mounting and input wire length customization
- Luminous size can be made individually: 10050, 12060, 14070, 16080, 200100, 240120 (remark for the small sizes)



Applications

- Metal cylinder profile measurement
- Glass bottle diameter measurement
- Large-area circuit board component detection and identification
- Dimension measurement of metal parts
- Wafer surface defect detection

Colours

R	620-630 nm
G	520-530 nm
B	460-470 nm
W	6000-7500 K

Common specifications

Voltage	24 V DC
LED type	SMD
Installation method	M3 nut slot (four-sided M3 nut grooves) and bottom side installation
Wire length	500 mm (drawing)
Operating environment (indoor)	temperature 0~40 °C, humidity 20~85% (non condensing)
Working life	white: 30000 hours, red: 30000 hours (the value varies according to the use environment)
Power tolerance	actual product power within $\pm 10\%$ of the table is the normal range
Quality service	one year product warranty, technical support

Ordering code: LS-2FLP<luminous surface length><luminous surface width>--<R/G/B/W/IR/UV>

Models

Model	Luminous size (mm)	Power red (W)	Power blue/white (W)	Long (mm)	Wide (mm)	High (mm)	Remarks
LS-2FLP5050 colours: R, B, W	50x50	2.9	2.9	64	64	22.5	The luminous size can be multiplied individually: 10050, 12060, 14070, 16080, 200100, 240120
LS-2FLP6060 colours: R, B, W	60x60	4.3	3.6	74	74	22.5	The luminous size can be multiplied individually: 10050, 12060, 14070, 16080, 200100, 240120
LS-2FLP7070 colours: R, B, W	70x70	5.0	5.4	84	84	22.5	The luminous size can be multiplied individually: 10050, 12060, 14070, 16080, 200100, 240120
LS-2FLP8080 colours: R, B, W	80x80	6.5	6.5	94	94	22.5	The luminous size can be multiplied individually: 10050, 12060, 14070, 16080, 200100, 240120
LS-2FLP9090 colours: R, B, W	90x90	8.6	7.6	104	104	22.5	The luminous size can be multiplied individually: 10050, 12060, 14070, 16080, 200100, 240120
LS-2FLP100100 colours: R, B, W	100x100	9.7	11.5	114	114	22.5	The luminous size can be multiplied individually: 10050, 12060, 14070, 16080, 200100, 240120
LS-2FLP120120 colours: R, B, W	120x120	11.9	13.0	134	134	22.5	The luminous size can be multiplied individually: 10050, 12060, 14070, 16080, 200100, 240120
LS-2FLP150150 colours: R, B, W	150x150	11.9	13.7	164	164	23.5	Large size
LS-2FLP200150 colours: R, B, W	200x150	15.1	17.5	214	164	23.5	Large size
LS-2FLP200200 colours: R, B, W	200x200	23.8	22.5	214	214	23.5	Large size
LS-2FLP250125 colours: R, B, W	250x125	13.0	16.8	264	139	23.5	Large size

LS-2FLP250250 colours: R, B, W	250x250	25.9	33.7	264	264	23.5	Large size
LS-2FLP300150 colours: R, B, W	300x150	19.4	27.5	314	164	23.5	Large size
LS-2FLP300200 colours: R, B, W	300x200	30.2	34.9	314	214	23.5	Large size
LS-2FLP300300 colours: R, B, W	300x300	47.5	54.9	314	314	23.5	Large size
LS-2FLP400200 colours: R, B, W	400x200	38.9	44.9	414	214	23.5	Large size
LS-2FLP400300 colours: R, B, W	400x300	60.5	69.9	414	314	23.5	Large size
LS-2FLP400400 colours: R, B, W	400x400	77.8	89.9	414	414	23.5	Large size

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

Dimensions

