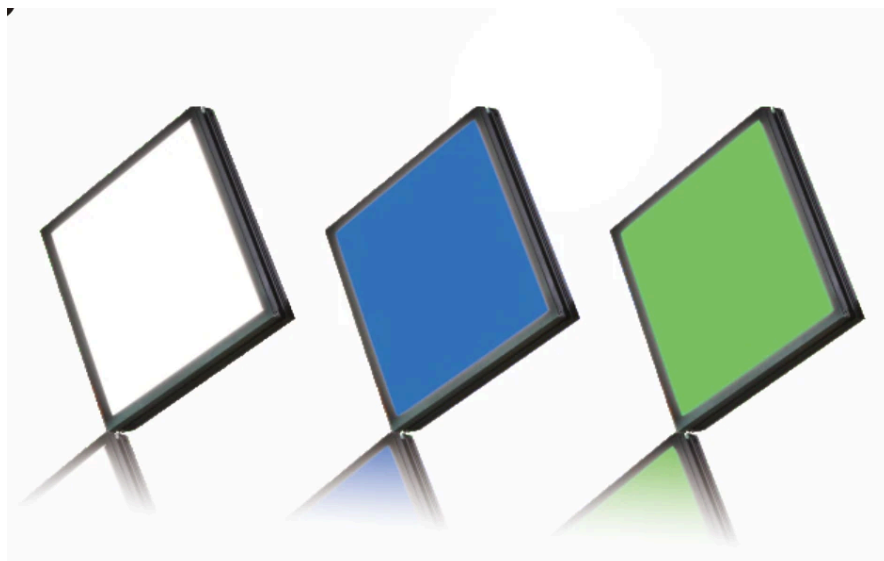


# High luminance back light (2FT/3FT)

LS-2FT3FT series · Backlights · 40 models



Compact back light using imported ultrathin surface-mount LEDs for high luminance and uniformity, in a precision-moulded shell that keeps batches consistent, with multiple installation methods. 2FT luminous surfaces range from 30x30 to 180x180 mm, 3FT from 190x190 to 500x500 mm; square and rectangular sizes can be customized.

## Features

- Compact design, efficient eco-friendly material
- Imported ultrathin paste (SMD) LED, high luminance, high uniformity
- Precision-moulded shell, small batch-to-batch difference
- Multiple installation methods
- Frame-structure installation (nut insertion hole, M3 screw, nut not attached) or base-area mounting holes
- Cover wire jacket, anti-pull
- Optional polarizing film to reduce lamp shadow or glare on reflective objects

## Applications

- Contour dimension measurement
- Damaged edge inspection
- Transparency impurity inspection
- Oral liquid level height inspection
- Imaging example: contour inspection of a metal logo (LS-2FT7070-W)

## Colours

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

## Common specifications

|                    |                                                              |
|--------------------|--------------------------------------------------------------|
| Voltage            | 24 V                                                         |
| Adapted controller | Analog controller, digital controller, high power controller |

|                              |                                                                                                                                                                                                                 |
|------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Customizable                 | viewport, length and width, multi-area control, colour and colour temperature, cable length, installation method                                                                                                |
| Cable (mm)                   | 500 (drawings)                                                                                                                                                                                                  |
| Option                       | Polarizing film                                                                                                                                                                                                 |
| Min. emitting area           | 30mm x 30mm                                                                                                                                                                                                     |
| Max. emitting area           | 620mm x 427mm                                                                                                                                                                                                   |
| Recommended working distance | 1~100mm                                                                                                                                                                                                         |
| FOV                          | 1~600mm                                                                                                                                                                                                         |
| Colours (overview)           | red / green / blue / white                                                                                                                                                                                      |
| Colour temperature of white  | 6600K                                                                                                                                                                                                           |
| Operating temperature        | 0-50 °C                                                                                                                                                                                                         |
| Operating humidity           | 20-85% (non-condensing)                                                                                                                                                                                         |
| Life span                    | 50000 h (to 50% of factory-default luminance)                                                                                                                                                                   |
| Extension cable options      | PVC extension cable (high flexibility, bending and heat resistant, for use inside equipment) or high-flexibility extension cable (harder and more abrasion resistant than PVC, for drag-chain production lines) |
| Custom wavelengths           | UV & IR light can be customized as required                                                                                                                                                                     |

Ordering code: LS-2FT/3FT<length of luminous zone><width of luminous zone>-<R/G/B/W/IR/UV>

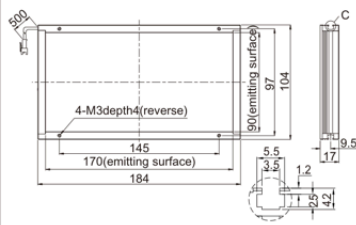
## Models

| Model                               | Power, R (W) | Power, G/B/W (W) | Weight (g) | Emitting surface (mm) | Dimension drawing | Common |
|-------------------------------------|--------------|------------------|------------|-----------------------|-------------------|--------|
| LS-2FT3030<br>colours: R, G, B, W   | 0.7          | 1.2              | 60         | 30 x 30               | 1                 | Y      |
| LS-2FT4060<br>colours: R, G, B, W   | 1.4          | 2.2              | 97         | 60 x 40               | 2                 | N      |
| LS-2FT5050<br>colours: R, G, B, W   | 2.4          | 3.6              | 101        | 50 x 50               | 3                 | Y      |
| LS-2FT6060<br>colours: R, G, B, W   | 2.9          | 4.8              | 124        | 60 x 60               | 4                 | Y      |
| LS-2FT7070<br>colours: R, G, B, W   | 3.8          | 5.8              | 150        | 70 x 70               | 5                 | Y      |
| LS-2FT8080<br>colours: R, G, B, W   | 4.3          | 7.2              | 175        | 80 x 80               | 6                 | Y      |
| LS-2FT9090<br>colours: R, G, B, W   | 5.8          | 9.6              | 212        | 90 x 90               | 7                 | Y      |
| LS-2FT100100<br>colours: R, G, B, W | 7.7          | 11.5             | 249        | 100 x 100             | 8                 | Y      |
| LS-2FT11060<br>colours: R, G, B, W  | 4.3          | 7.2              | 191        | 110 x 60              | 9                 | N      |
| LS-2FT11075<br>colours: R, G, B, W  | 4.6          | 7.7              | 201        | 110 x 75              | 10                | N      |
| LS-2FT120120<br>colours: R, G, B, W | 9.6          | 14.4             | 324        | 120 x 120             | 11                | Y      |
| LS-2FT13050<br>colours: R, G, B, W  | 4.1          | 6.7              | 301        | 130 x 50              | 12                | N      |

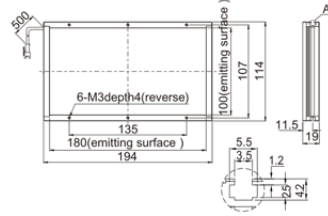
|                                     |       |       |      |           |    |   |
|-------------------------------------|-------|-------|------|-----------|----|---|
| LS-2FT130130<br>colours: R, G, B, W | 10.1  | 16.8  | 394  | 130 x 130 | 13 | Y |
| LS-2FT140140<br>colours: R, G, B, W | 11.8  | 18.5  | 420  | 140 x 140 | 14 | Y |
| LS-2FT15050<br>colours: R, G, B, W  | 5.8   | 8.6   | 211  | 150 x 50  | 14 | N |
| LS-2FT150100<br>colours: R, G, B, W | 8.6   | 14.4  | 330  | 150 x 100 | 15 | N |
| LS-2FT150150<br>colours: R, G, B, W | 11.5  | 19.2  | 463  | 150 x 150 | 16 | Y |
| LS-2FT160160<br>colours: R, G, B, W | 15.4  | 23.0  | 510  | 160 x 160 | 17 | Y |
| LS-2FT17090<br>colours: R, G, B, W  | 10.1  | 15.1  | 397  | 170 x 90  | 18 | N |
| LS-2FT180100<br>colours: R, G, B, W | 10.1  | 16.8  | 450  | 180 x 100 | 19 | N |
| LS-2FT180140<br>colours: R, G, B, W | 11.5  | 19.2  | 740  | 180 x 140 | 20 | N |
| LS-2FT180180<br>colours: R, G, B, W | 18.7  | 28.1  | 833  | 180 x 180 | 21 | Y |
| LS-3FT20060<br>colours: R, G, B, W  | 7.2   | 12.0  | 370  | 200 x 60  | 20 | N |
| LS-3FT200150<br>colours: R, G, B, W | 15.1  | 25.2  | 750  | 200 x 150 | 21 | N |
| LS-3FT200200<br>colours: R, G, B, W | 20.2  | 33.6  | 860  | 200 x 200 | 23 | N |
| LS-3FT20641<br>colours: R, G, B, W  | 5.3   | 7.9   | 324  | 206 x 41  | 24 | Y |
| LS-3FT24070<br>colours: R, G, B, W  | 11.5  | 17.3  | 545  | 240 x 70  | 25 | N |
| LS-3FT250250<br>colours: R, G, B, W | 33.6  | 50.4  | 1558 | 250 x 250 | 26 | N |
| LS-3FT260260<br>colours: R, G, B, W | 34.6  | 51.9  | 1658 | 260 x 260 | 26 | N |
| LS-3FT280280<br>colours: R, G, B, W | 37.4  | 62.4  | 1767 | 280 x 280 | 27 | Y |
| LS-3FT30060<br>colours: R, G, B, W  | 11.5  | 17.3  | 450  | 300 x 60  | 28 | Y |
| LS-3FT30641<br>colours: R, G, B, W  | 7.7   | 11.5  | 1333 | 306 x 41  | 29 | N |
| LS-3FT300200<br>colours: R, G, B, W | 30.2  | 50.4  | 1518 | 300 x 200 | 30 | N |
| LS-3FT300300<br>colours: R, G, B, W | 47.0  | 77.3  | 2193 | 300 x 300 | 31 | N |
| LS-3FT350350<br>colours: R, G, B, W | 77.8  | 116.6 | 2850 | 350 x 350 | 32 | Y |
| LS-3FT400250<br>colours: R, G, B, W | 54.7  | 91.2  | 2044 | 400 x 250 | 33 | N |
| LS-3FT500100<br>colours: R, G, B, W | 28.8  | 48.0  | 1250 | 500 x 100 | 34 | N |
| LS-3FT500500<br>colours: R, G, B, W | 138.2 | 207.4 | 3269 | 500 x 500 | 35 | N |



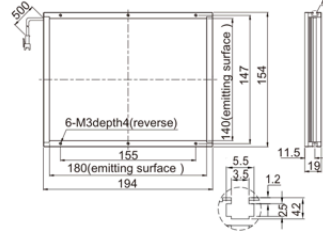
19.LS-2FT17090



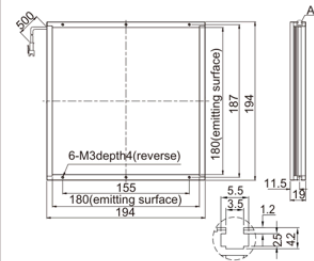
20.LS-2FT180100



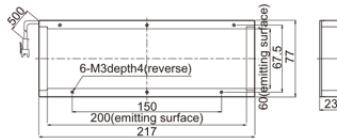
21.LS-2FT180140



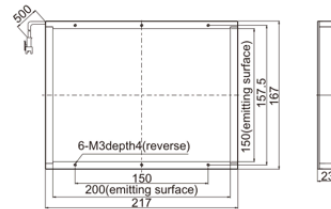
22.LS-2FT180180



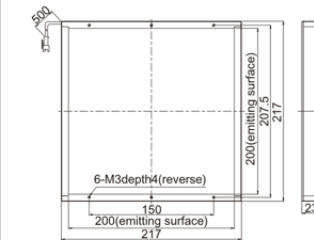
23.LS-3FT20060



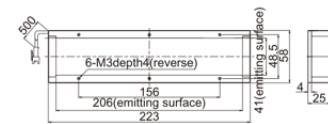
24.LS-3FT200150



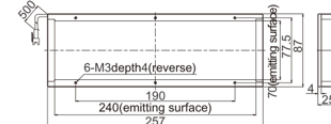
25.LS-3FT200200



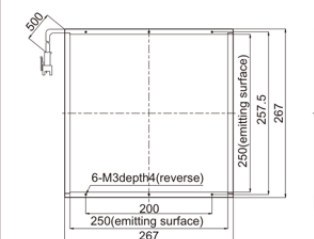
26.LS-3FT20641



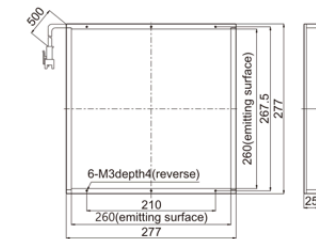
27.LS-3FT24070



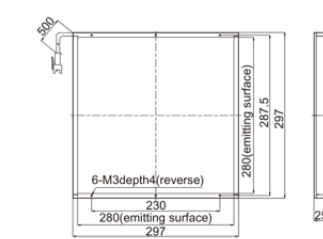
28.LS-3FT250250



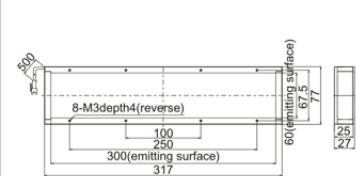
29.LS-3FT260260



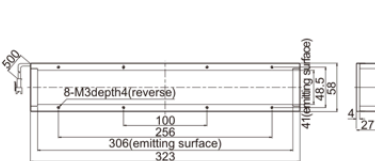
30.LS-3FT280280



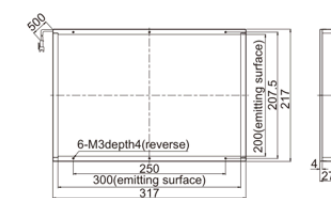
31.LS-3FT30060



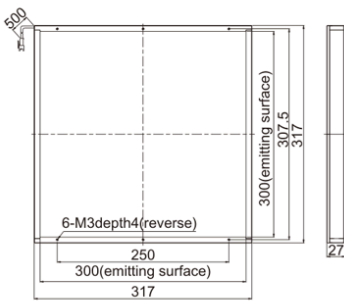
32.LS-3FT30641



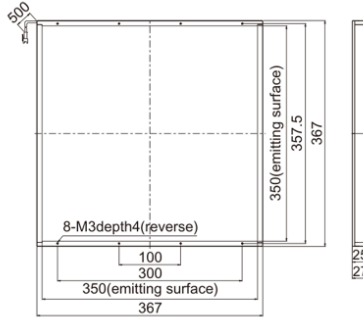
33.LS-3FT300200



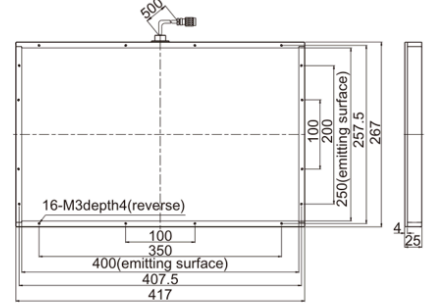
34.LS-3FT300300



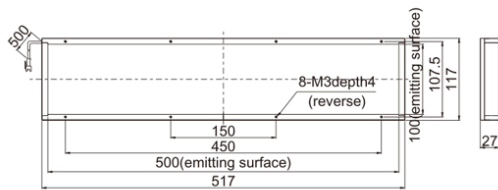
35.LS-3FT350350



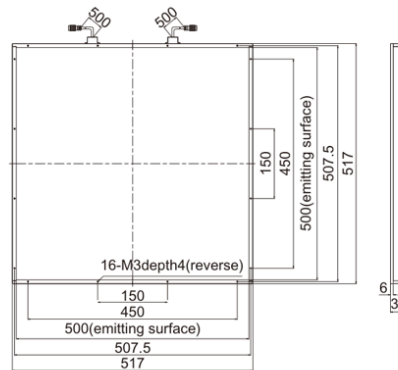
36.LS-3FT400250



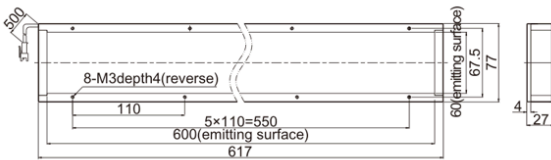
37.LS-3FT500100



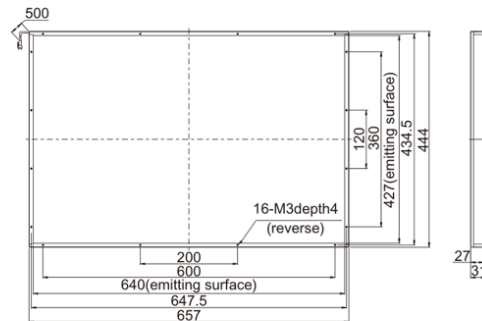
38.LS-3FT500500



39.LS-3FT60060



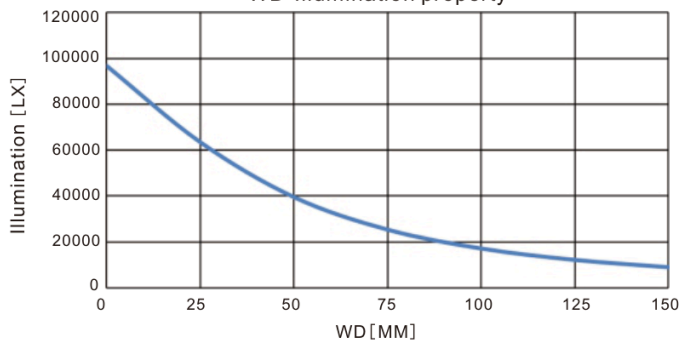
40.LS-3FT640427



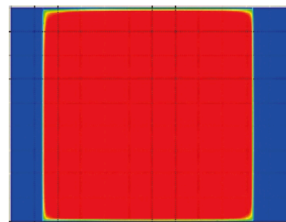
## Performance

Model: LS-2FT100100-W

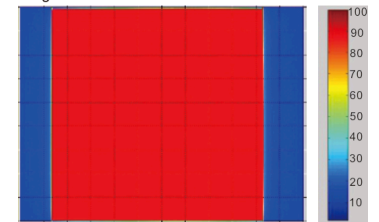
WD-Illumination property



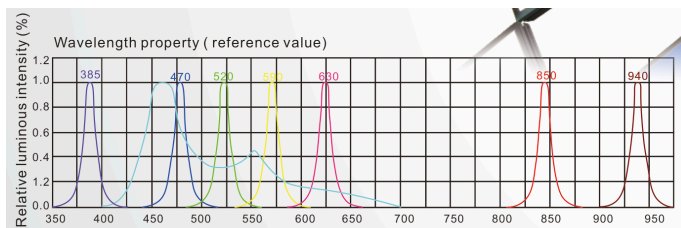
Dark FOV: 133x100mm



Bright FOV: 133x100mm



\*Above diagram only for reference.



## Product views

