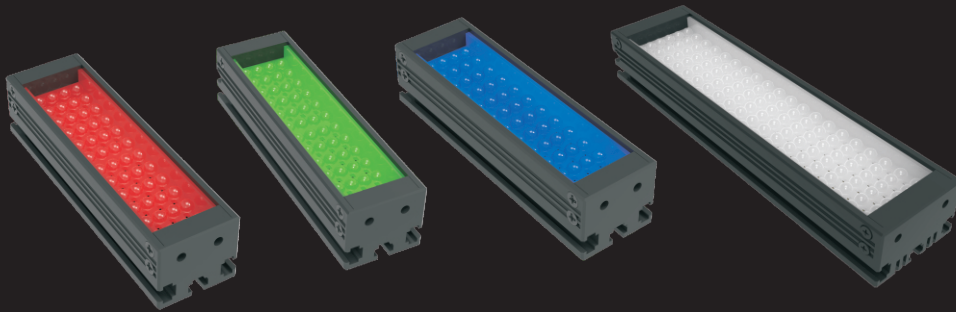


High Intensity Bar Lights OPT-LIJ Series



Product Features

- 1 Lights based on SMD LEDs
- 2 Special cylinder lens design to improve uniformity
- 3 Higher LED intensity compared with other high-power bar lights
- 4 Can be installed by M3 threaded hole, and also can be installed in the three extrusion slots by inserting the M3 nut

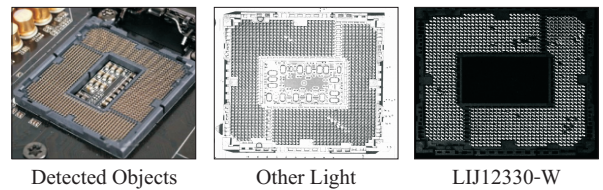
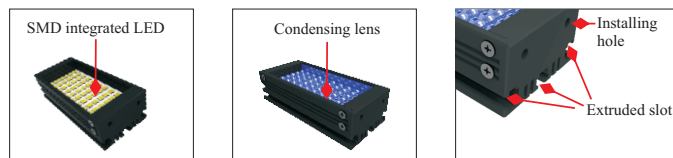
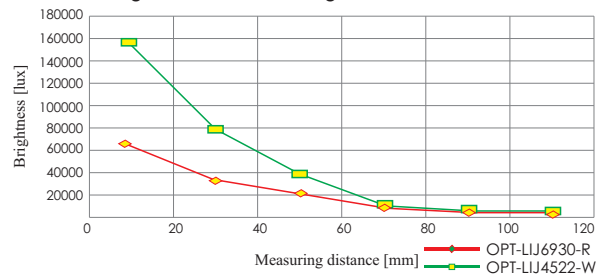


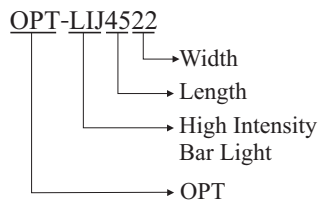
Chart of brightness over Working Distance



Application Cases

- ◆ OCR-Optical Character Recognition
- ◆ Bar code recognition
- ◆ Metal surface inspection
- ◆ Image scanning
- ◆ LCD board inspection

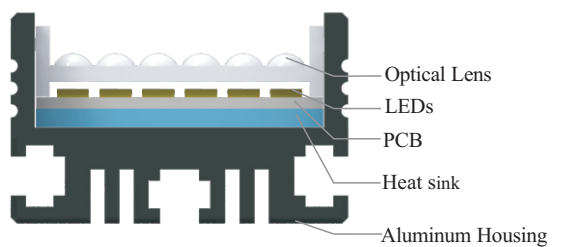
Selection Guide



Customization Options



Sectional Structure Diagram

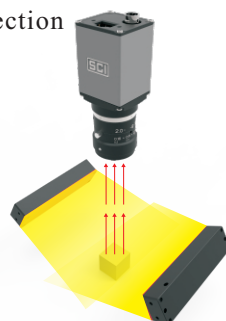


Application Example

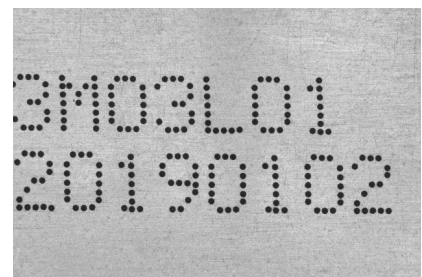
Inspected item: Packing box character inspection



Original Image



Illuminated

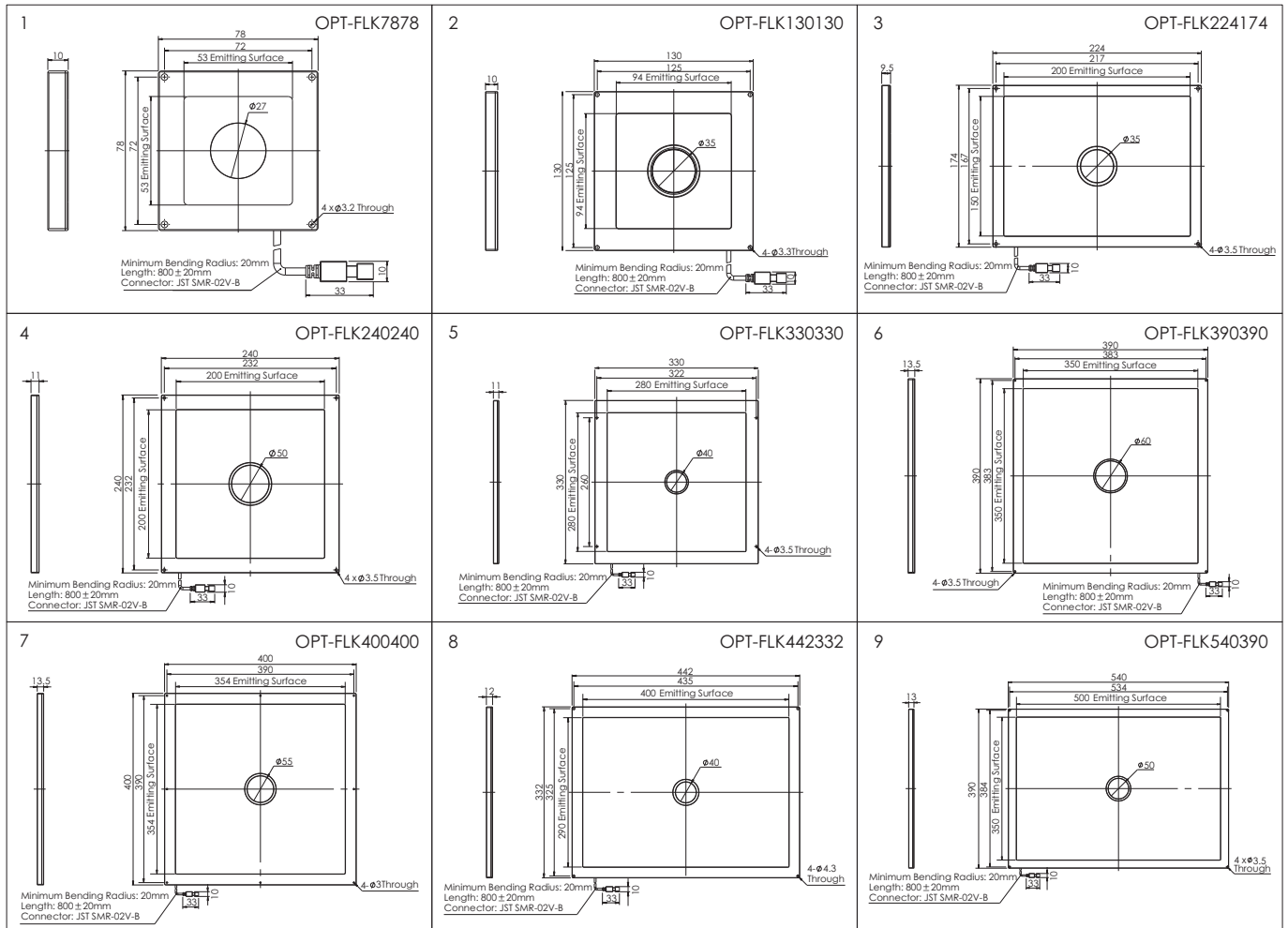


Result Image

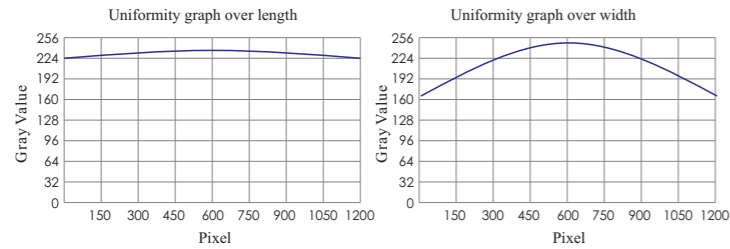
Model Table

No.	Model	Output ●	Output ○●●	Recommended controller
1	OPT-FLK7878	24V/1.2W	24V/1.7W	OPT-DPA1024E
2	OPT-FLK130130	24V/2.4W	24V/3.9W	OPT-DPA1024E
3	OPT-FLK224174	24V/2.9W	24V/3.4W	OPT-DPA1024E
4	OPT-FLK240240	24V/2W	24V/5.8W	OPT-DPA1024E
5	OPT-FLK330330	24V/5.8W	24V/7.6W	OPT-DPA1024E
6	OPT-FLK390390	24V/5.8W	24V/8.9W	OPT-DPA1024E
7	OPT-FLK400400	24V/6.6W	24V/9.1W	OPT-DPA1024E
9	OPT-FLK442332	24V/6.8W	24V/9.8W	OPT-DPA1024E
10	OPT-FLK540390	24V/8.1W	24V/14.2W	OPT-DPA1024E

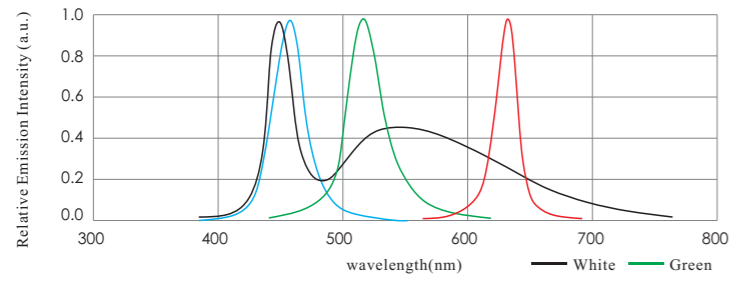
Dimensional Drawings [mm]



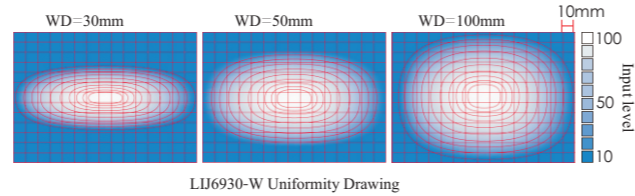
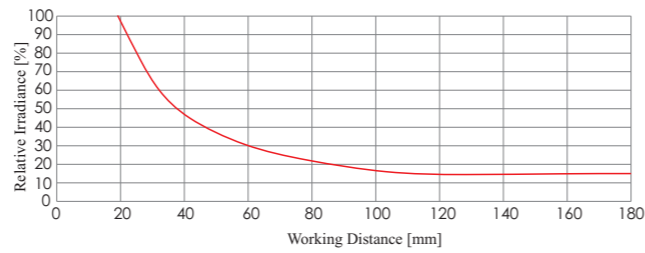
Reference OPT-LIJ12330 Grey Value Sampling



Note: We used a CCD camera for the analysis of the grey values; above drawing shows the average grey values
*Above data is just for reference, not for quality assurance



Relative Emission Intensity, Uniformity Chart

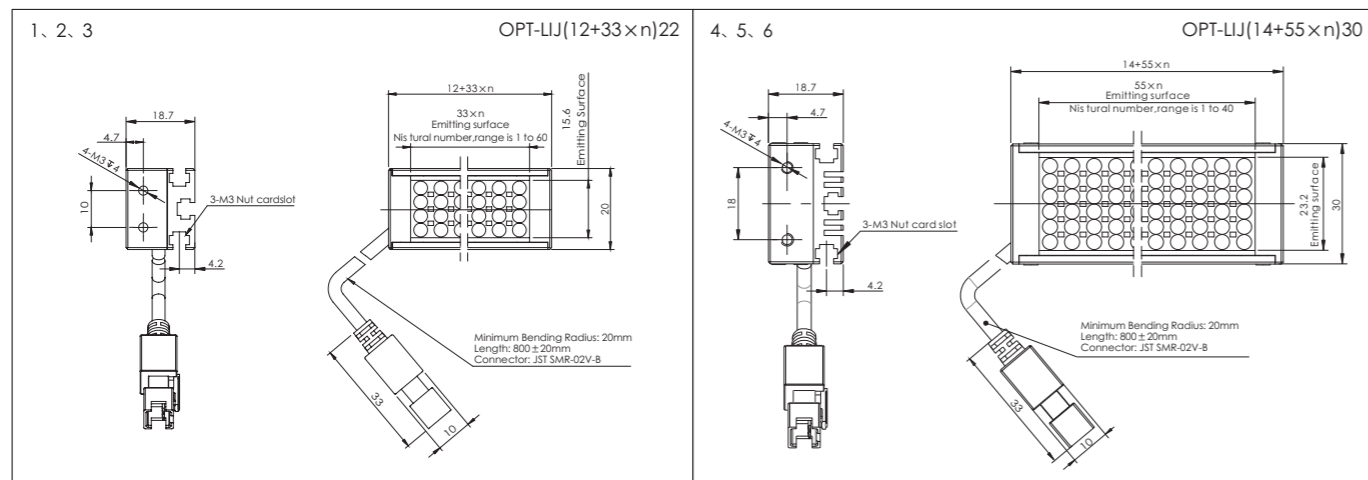


Model Table

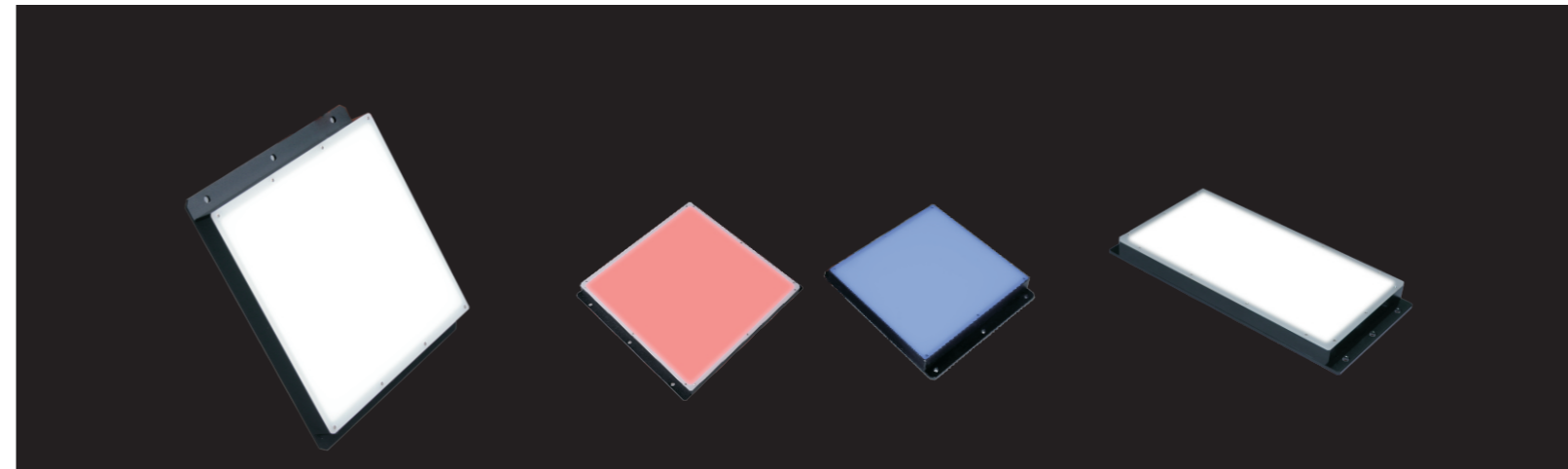
No.	Model	Output ●	Output ○●○	Size	Recommended controller
1	OPT-LIJ4522	24V/0.4W	24V/2.3W	1	OPT-DPA1024E
2	OPT-LIJ7822	24V/2.0W	24V/3.2W	2	OPT-DPA1024E
3	OPT-LIJ11122	24V/2.9W	24V/4.8W	3	OPT-DPA1024E
4	OPT-LIJ6930	24V/0.9W	24V/2.7W	1	OPT-DPA1024E
5	OPT-LIJ12430	24V/1.9W	24V/5.7W	2	OPT-DPA1024E
6	OPT-LIJ23430	24V/3.9W	24V/10.5W	4	OPT-DPA1024E

Remarks: refer to the parameter chart to get the quantity of channel

Dimensional Drawings [mm]



Back Lights OPT-FL Series



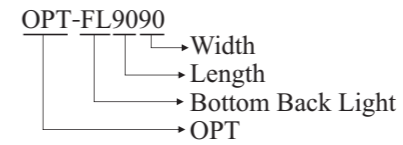
Product Features

- 1 Large area illumination
- 2 Mainly used for geometric measurement and inspection of the outer shapes of objects and for large area uniform illumination

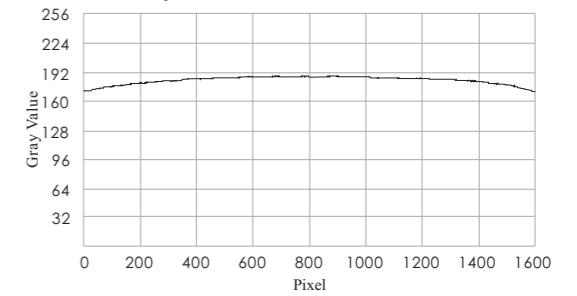
Application Cases

- ◆ Geometric measurement of mechanical details
- ◆ Electronic components, IC contour detection
- ◆ Blur Inspection film
- ◆ Transparent objects scratches detection

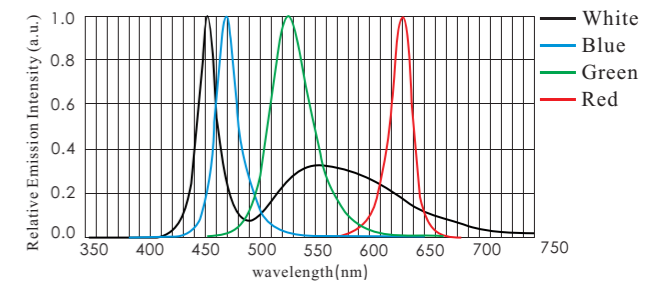
Selection Guide



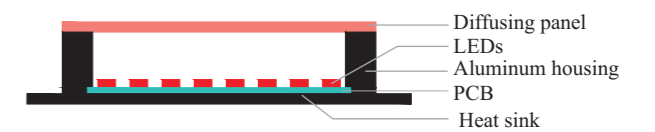
Uniformity Chart



Spectrum Chart



Sectional Structure Diagram



Customization Options

- color
- waterproof light
- sub regional
- size
- Mount method
- light group
- connector
- Multi-color customization

Application Example

Metal parts contour detection



Original Image



Illuminated



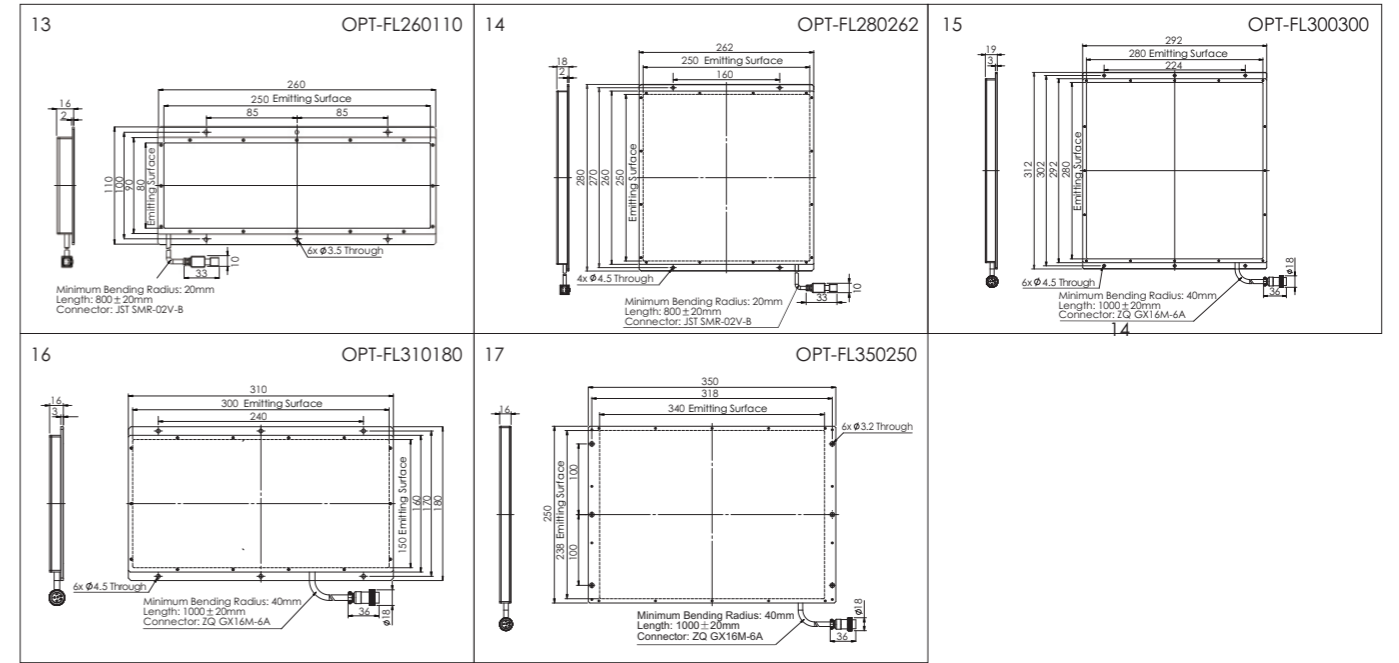
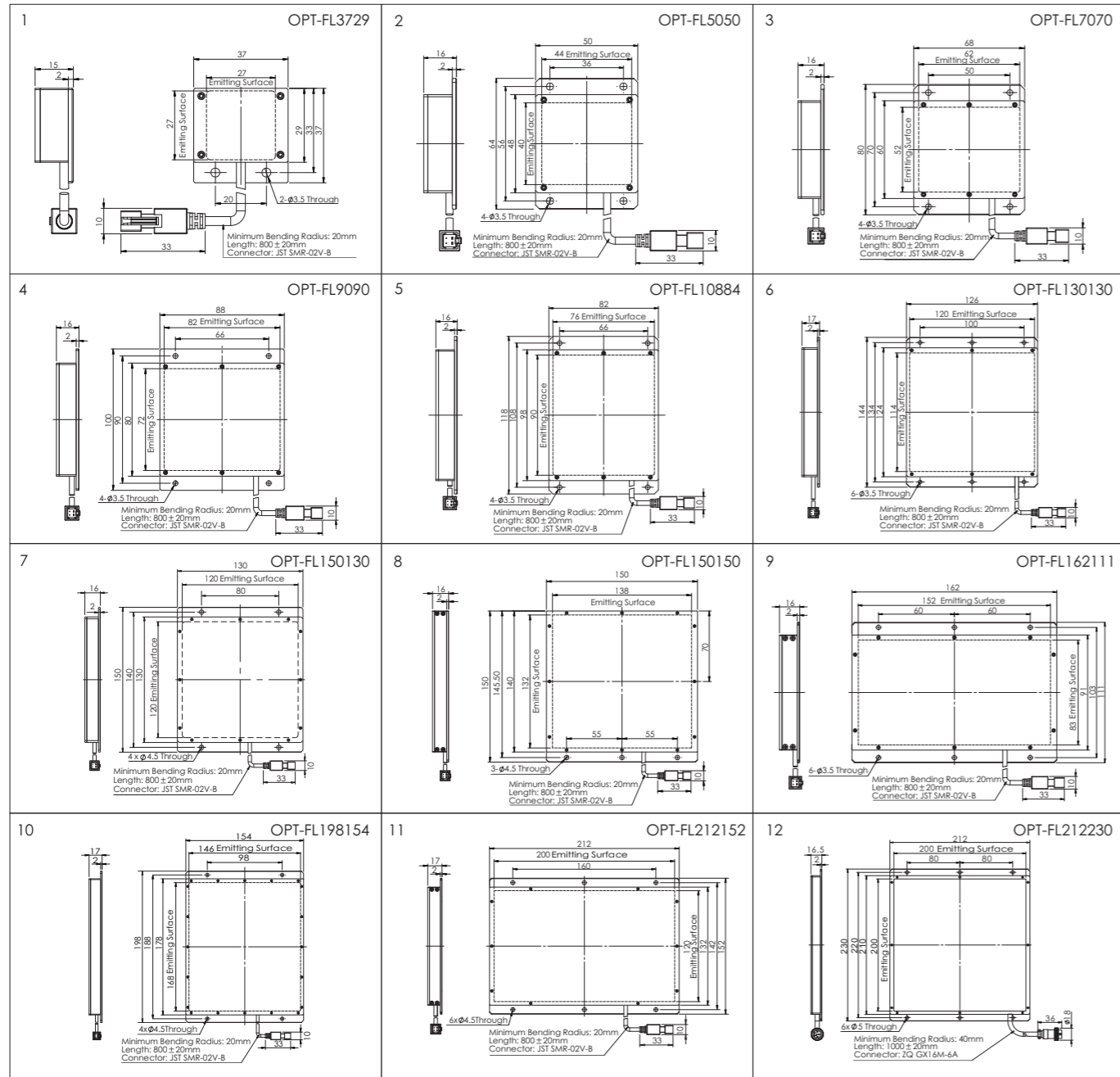
Result Image

Model Table

No.	Model	Output ●	Output ○●●	Recommended controller
1	OPT-FL3729	24V/0.4W	24V/0.6W	OPT-DPA1024E
2	OPT-FL5050	24V/0.6W	24V/2.2W	OPT-DPA1024E
3	OPT-FL7070	24V/0.9W	24V/3.5W	OPT-DPA1024E
4	OPT-FL9090	24V/2.0W	24V/6.0W	OPT-DPA1024E
5	OPT-FL10884	24V/2.0W	24V/6.0W	OPT-DPA1024E
6	OPT-FL130130	24V/4.5W	24V/13.0W	OPT-DPA1024E
7	OPT-FL150130	24V/4.9W	24V/16.0W	OPT-DPA1024E
8	OPT-FL150150	24V/10.0W	24V/18.0W	OPT-DPA1024E
9	OPT-FL162111	24V/3.0W	24V/14.0W	OPT-DPA1024E

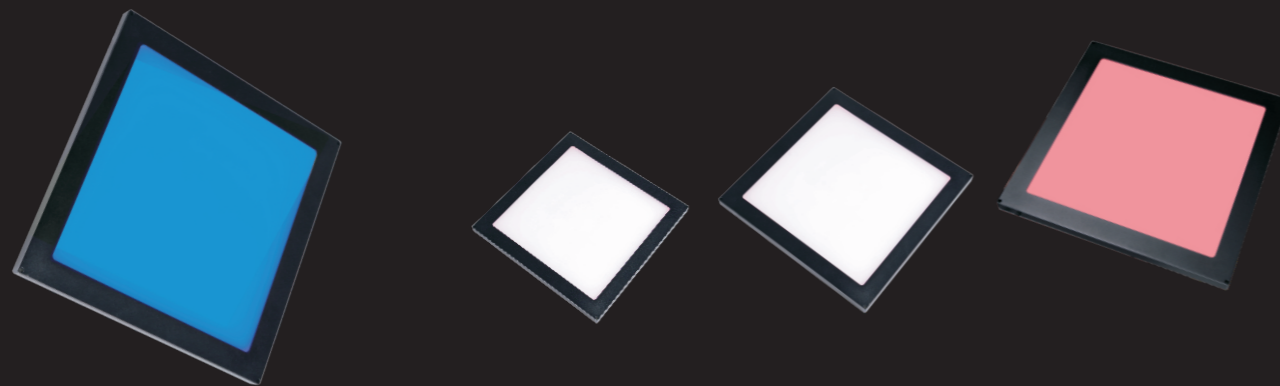
No.	Model	Output ●	Output ○●●	Recommended controller
10	OPT-FL198154	24V/11.5W	24V/21.8W	OPT-DPA1024E
11	OPT-FL212152	24V/10.0W	24V/22.0W	OPT-DPA1024E
12	OPT-FL212230	24V/11.5W	24V/29.0W	OPT-DPA1024E
13	OPT-FL260110	24V/11.0W	24V/21.4W	OPT-DPA1024E
14	OPT-FL280262	24V/33.1W	24V/41.0W	OPT-DPA1024E
15	OPT-FL300300	24V/32.2W	24V/44.4W	OPT-DPA1024E
16	OPT-FL310180	24V/19.2W	24V/33.8W	OPT-DPA1024E
17	OPT-FL350250	24V/28.1W	24V/38.4W	OPT-DPA1024E

Dimensional Drawings [mm]



Model Table

No.	Model	Output ●	Output ○ ● ●	Recommended controller
1	OPT-FLC4527	24V/0.30W	24V/0.3W	OPT-DPA1024E
2	OPT-FLC5050	24V/0.35W	24V/1.4W	OPT-DPA1024E
3	OPT-FLC7070	24V/0.40W	24V/1.0W	OPT-DPA1024E
4	OPT-FLC9090	24V/1.00W	24V/2.4W	OPT-DPA1024E
5	OPT-FLC110110	24V/1.90W	24V/2.4W	OPT-DPA1024E
6	OPT-FLC130130	24V/2.90W	24V/4.3W	OPT-DPA1024E
7	OPT-FLC200200	24V/2.40W	24V/4.8W	OPT-DPA1024E
8	OPT-FLC250250	24V/4.30W	24V/5.5W	OPT-DPA1024E
9	OPT-FLC300300	24V/4.6W	24V/7.2W	OPT-DPA1024E
10	OPT-FLC320220	24V/1.7W	24V/6.2W	OPT-DPA1024E
11	OPT-FLC326216	24V/3.4W	24V/5.4W	OPT-DPA1024E
12	OPT-FLC350250	24V/4.3W	24V/6.8W	OPT-DPA1024E
13	OPT-FLC358328	24V/5.0W	24V/7.7W	OPT-DPA1024E
14	OPT-FLC426204	24V/4.3W	24V/7.5W	OPT-DPA1024E
15	OPT-FLC500500	24V/6.5W	24V/12.5W	OPT-DPA1024E
16	OPT-FLC550550	24V/8.0W	24V/13.5W	OPT-DPA1024E



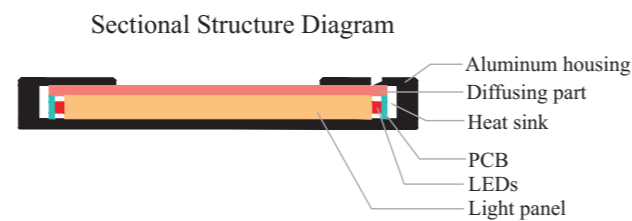
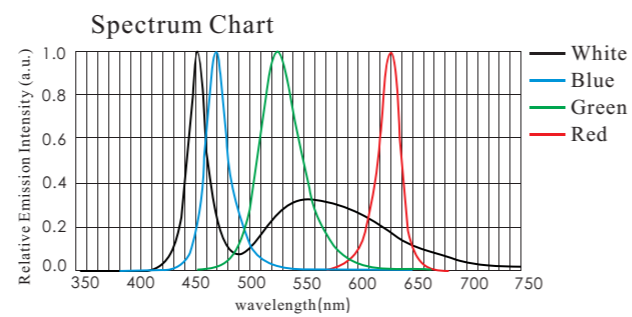
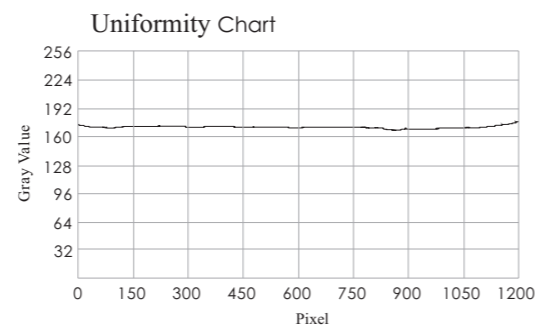
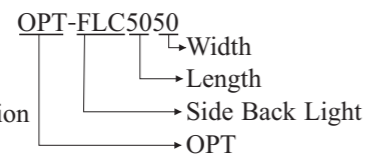
Product Features

- Multilateral emission, excellent overall uniformity
- Ultra-thin: The height can be reduced down to 6 mm to satisfy challenging installation space requirements
- Freely customizable size for also large areas of uniform illumination

Application Cases

- Identification and inspection of large square PCBs and electronic components
- Geometric measurement inspection
- LED defect inspection

Selection Guide



Customization Options

- color
- multilateral emission
- connector
- size
- Mount method
- emitting surface

Application Example

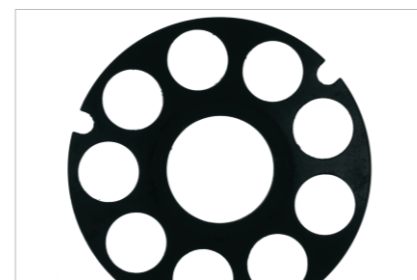
Precision metal measurement



Original Image



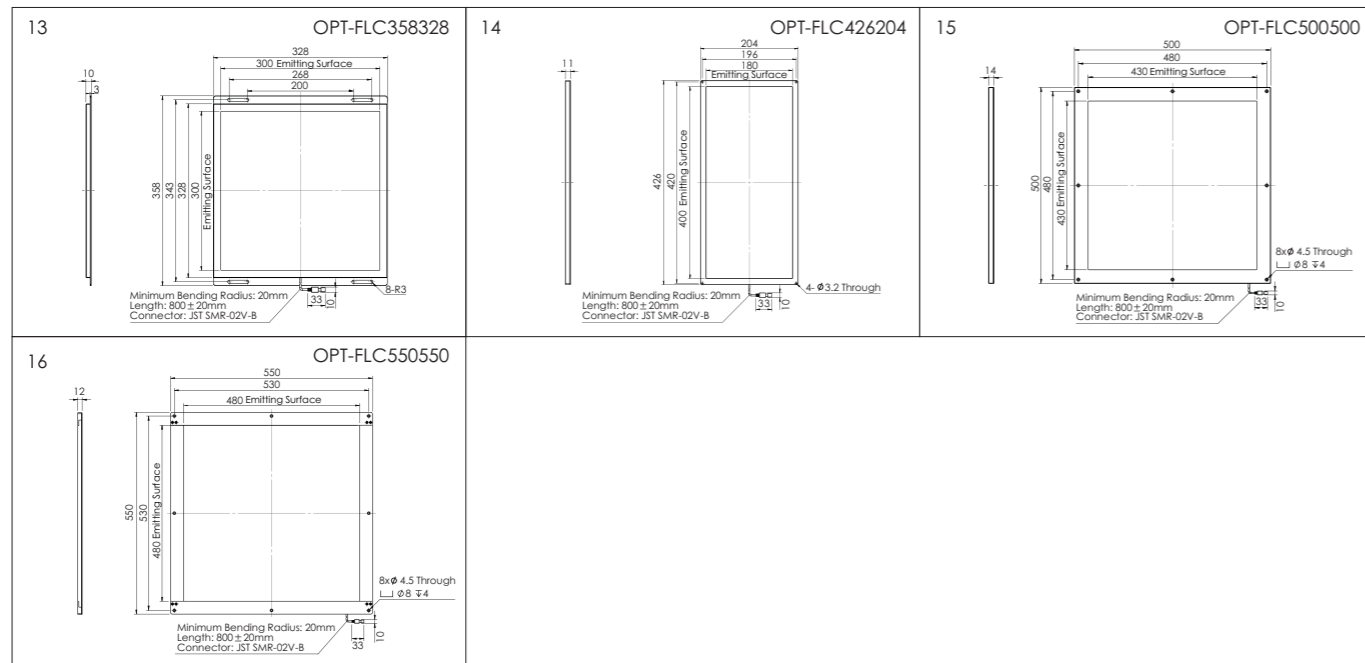
Illuminated



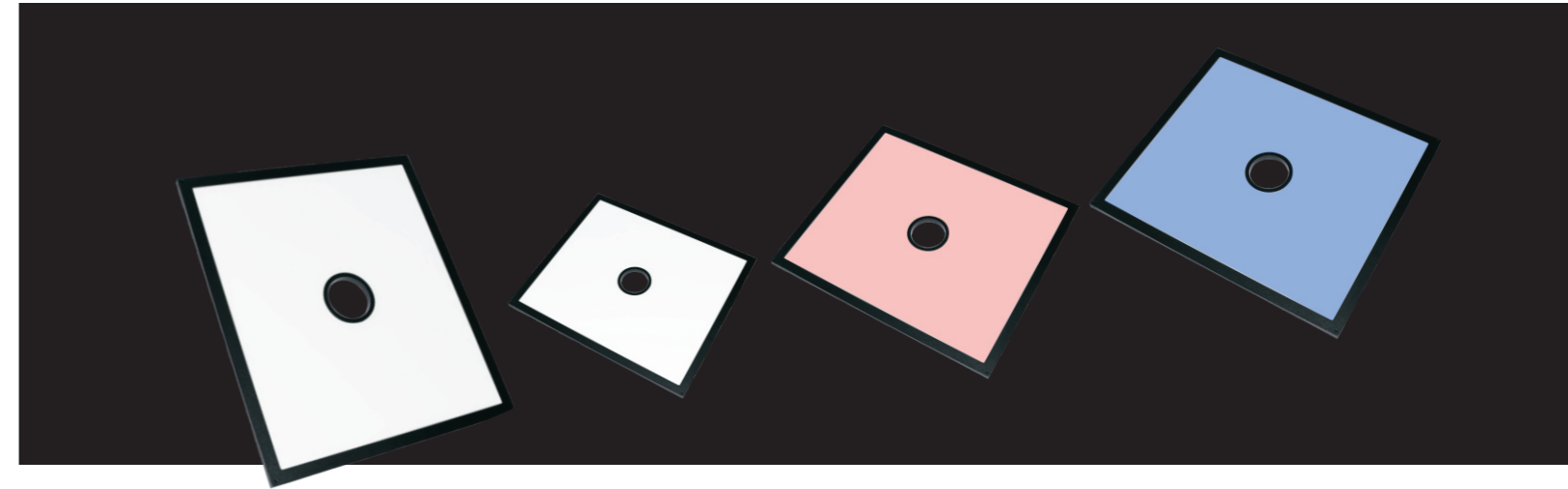
Result Image

Dimensional Drawings [mm]

Dimensional Drawings [mm]

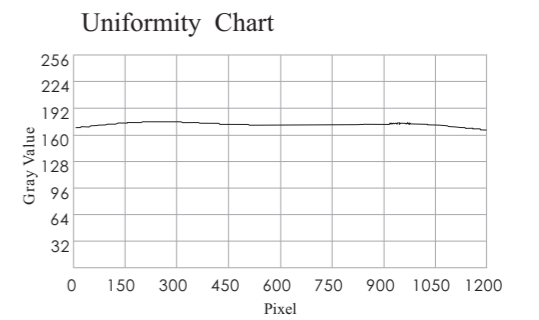


Front Lights OPT-FLK Series



Product Features

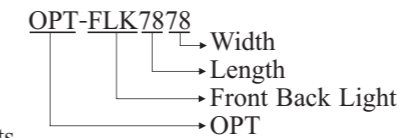
- 1 Creates shadowless light
- 2 Illuminates large areas uniformly
- 3 Customizable in size, quantity and position of the hole



Application Cases

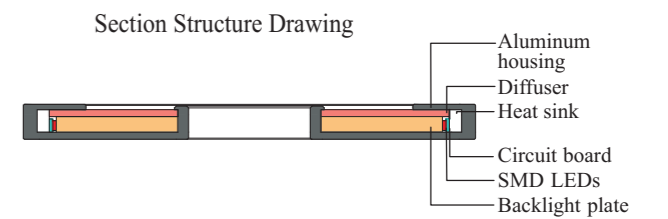
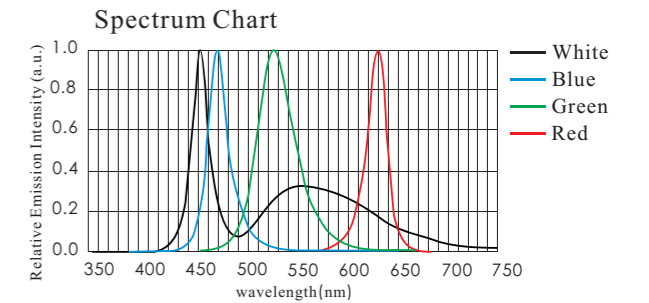
- ◆ Big PCB parts inspection and recognition
- ◆ Big electronic part surface letter inspection
- ◆ Localization of marker points

Selection Guide



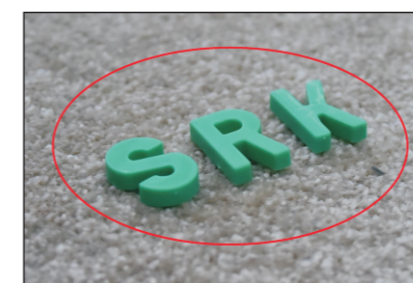
Customization Options

- color
- Emitting surface
- Area separate control
- Light size
- Mount method
- Multi-color customization

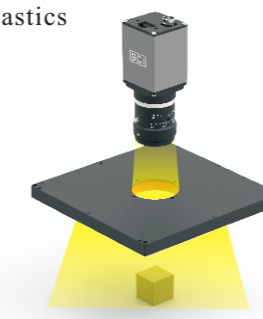


Application Example

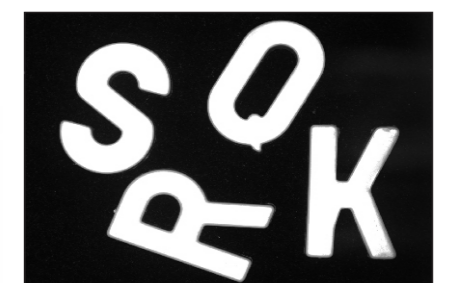
Inspected item: Letter Recognition on Plastics



Original Image



Illuminated



Result Image