

Flat Lights

LFL series

Refer to our website for product details.

CCS LFL

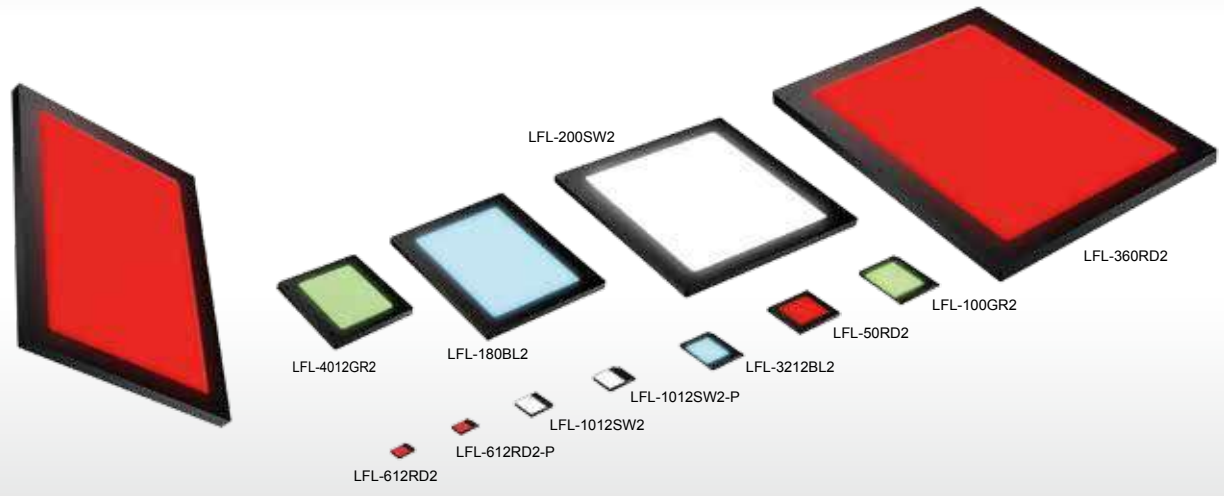
Search



You can also use your smartphone or cell phone.

Use a search engine.

Diffused illumination from a flat emitting surface



Applications Dimension measuring, visual inspection, foreign material inspections, liquid level inspection, burr inspection for metal parts, and inspection for tears / stains on packaging, etc.

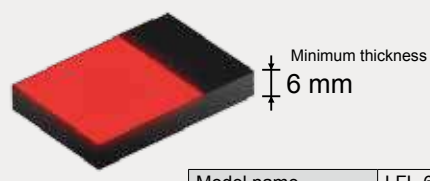
Rich lineup with 43 models

Rich lineup

The lineup consists of 35 models, with 9 sizes of emitting surfaces from 25 x 25 mm to 360 x 250 mm in each color. The rich lineup has a total of 43 models, including the LFL-612-P and LFL-1012-P, which add a plate for installation to the housing.

Energy-saving type that is light-weight and thin

The Light Unit's thin design, with a minimum thickness of 6 mm, allows for space-saving installation.

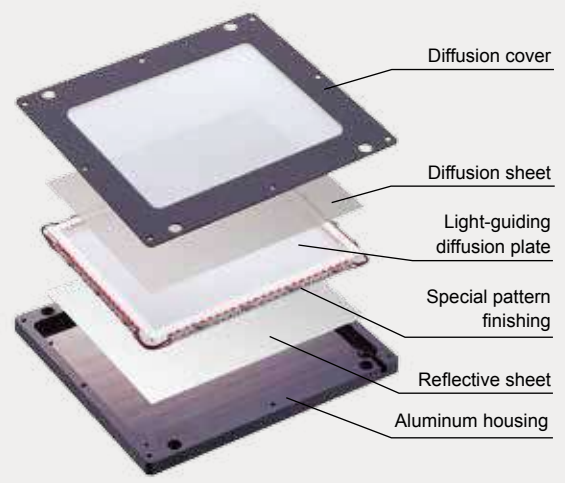


Model name	LFL-612RD2
Power consumption	24 V / 0.6 W
Weight	25 g

Uses a unique method of light guidance

LEDs are placed around the light-guiding diffusion plate. The special pattern finishing achieves illumination with even greater diffusion.

Cross-section image of the LFL-100



Custom orders

Please contact your CCS sales representative.

E.g.: Different shape

Customizable items

Format Allows you to create a Light Unit with a hole in it and pass things through the center

Can also be used as a camera window

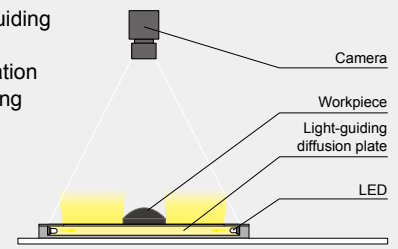


- External/internal diameter
- Wavelength/color
- Increase output
- Cable length
- Illuminating angle
- Format/material
- Connector format
- Installation/mounting
- Etc.

Example configuration

LEDs embedded around the outside of a square light-guiding diffusion plate. Diffused illumination from a flat emitting surface.

LFL-100

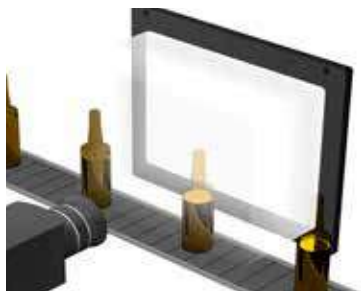


We have various materials.

- PDF Drawings
- DXF Drawings
- 3D CAD
- Instruction Guides
- Product Filers
- Imaging Samples
- Data Sheets
- Examples of Custom Ordered Products

Download here.
<http://www.ccs-grp.com/dl/>

Imaging example : Imaging of the level of liquid inside a glass container



Description	Liquid volume inspection
Workpiece	Glass container
Before the proposal	LED Ring Light
After the proposal	LFL-180SW2
Result	Emphasizes the level of the liquid

Workpiece image



Glass container

LED Ring Light



It is difficult to form an image of the liquid level due to surface reflection.

LFL-180SW2



It is possible to form an image of the liquid level without surface reflection.

Imaging example : Imaging of the level of liquid inside a plastic container



Description	Liquid volume inspection
Workpiece	Plastic container
Before the proposal	LED Ring Light
After the proposal	LFL-180SW2
Result	Emphasizes the level of the liquid

Workpiece image



Plastic container

LED Ring Light



It is difficult to form an image of the liquid level due to surface reflection.

LFL-180SW2



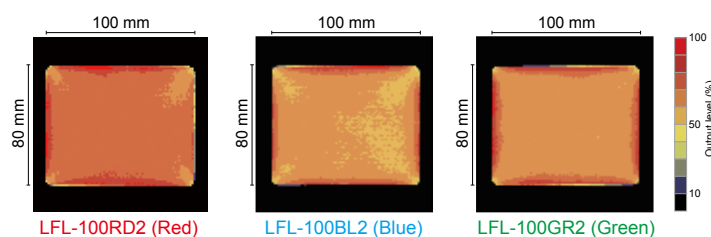
It is possible to form an image of the liquid level without surface reflection.

Data : Uniformity graph (Representative example)

LFL-100

*The graph included is for reference only and does not guarantee the quality of this product.

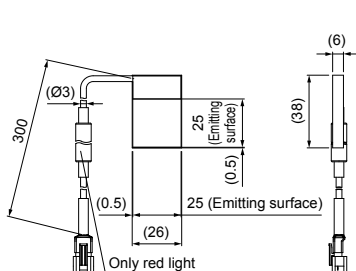
Uniformity graph (Relative radiance)



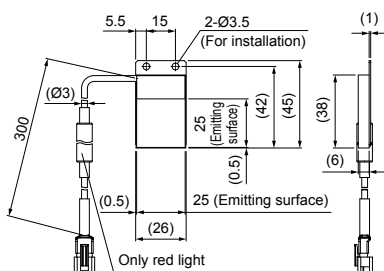
Direct Lighting	LDR2
	LDR2-LA
	LDR-LA1
	SQR
Convergent Lighting	SQR-TP
	HLDR-IP
Diffused Lighting	HPR2
	HPR
	LFR
	LKR
	FPR
Direct Lighting	FPQ2
	LDL2
Direct Lighting	LDLB
	HLDL2
Diffused Lighting	TH
	LFL
	HPD2
	HPD
	LDM2
	LAV
	PDM
	LFX2
	LFV3
	LFV2
Calculated Lighting	MSU
	MFU
Ultraviolet Lighting	UV2
	UV
Infrared Lighting	LNISP-UV-FN
	IR2
Spot Lighting, Etc.	HLV2
	LV
	LSP
	HFS/HFR
	HLV2-NR
Convergent Lighting	HLV2-3M-RGB-3W
	PFB2
	PFBR
Convergent Lighting	LNISP
	CU-LNISP
	LNISP-FN
Diffused Lighting	LN/LN-HK
	LNLD
	LND2
Oblique Angled Lighting	HLND
	LT
	LN/HLDN
Lenses	LNIS
	LNIS-FN
	Telecentric Lens
	Macro Lens

Dimensions (mm)

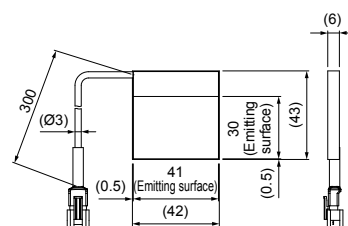
LFL-612RD2/SW2/BL2/GR2



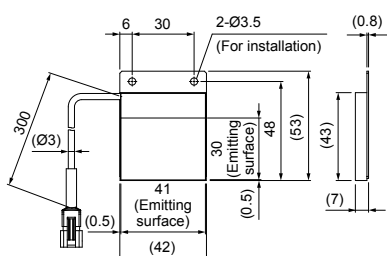
LFL-612RD2-P/SW2-P/BL2-P/GR2-P



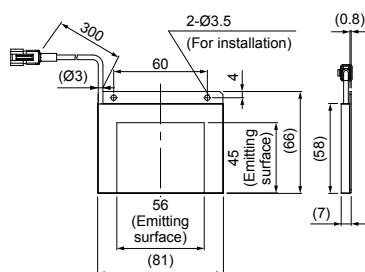
LFL-1012RD2/SW2/BL2/GR2



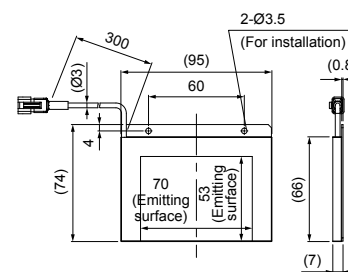
LFL-1012RD2-P/SW2-P/BL2-P/GR2-P



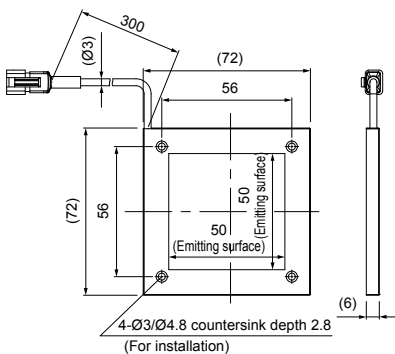
LFL-3212RD2/SW2/BL2/GR2



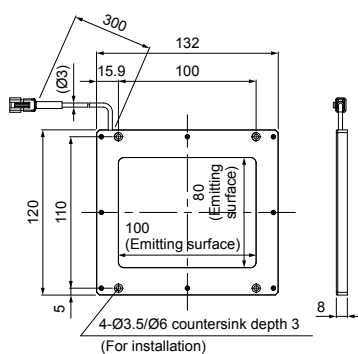
LFL-4012RD2/SW2/BL2/GR2



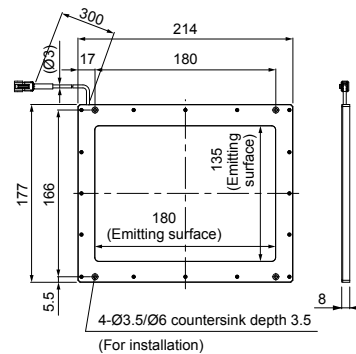
LFL-50RD2/SW2/BL2/GR2



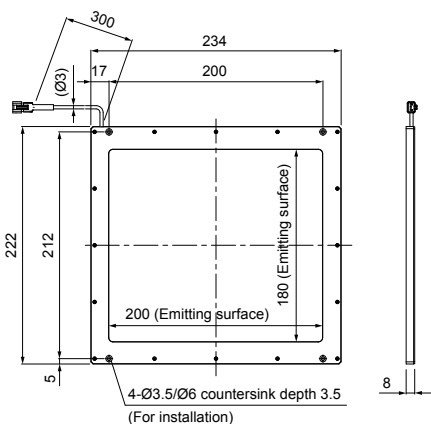
LFL-100RD2/SW2/BL2/GR2



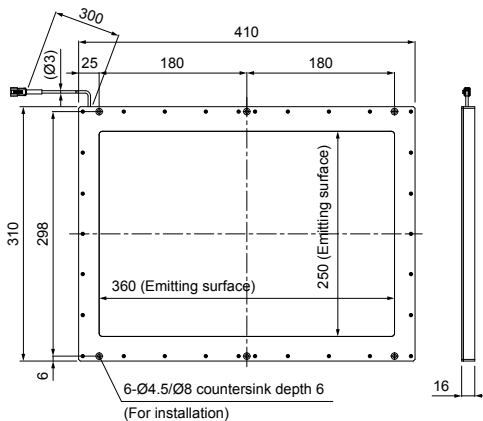
LFL-180RD2/SW2/BL2/GR2



LFL-200RD2/SW2/BL2/GR2



LFL-360RD2/SW2/BL2



You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.125 for details.