

# Flat Lights

## TH2 series Rectangular type

Refer to our website for product details.

CCS TH2

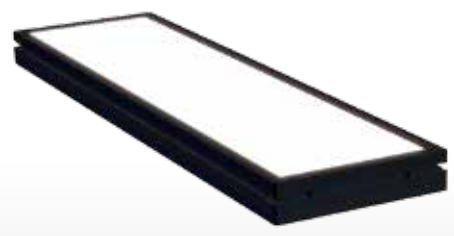
Search



You can also use your smartphone or cell phone.

Use a search engine.

Flat Light Units with a 300 x 75 mm emitting surface. Applicable to inspection of rectangular workpieces and imaging with a line sensor camera.



TH2-300X75SW

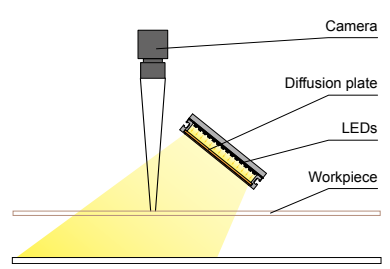
TH2-300X75RD

**Applications** Inspection of the appearance of cylindrical containers or square-shaped workpieces, inspection for stains and foreign material on non woven fabrics, fault inspection of films, inspection of the appearance of glass, etc.

### Features

These Flat Lights are optimum for inspecting rectangular workpieces. Also applicable to inspections with a line sensor camera.

#### Example configuration (TH2-300X75)



We accept custom orders. Please feel free to inquire.

- Shape modifications
- Brightness increases
- Changes in wavelength, etc.

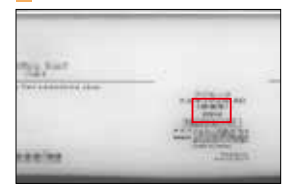
#### Imaging example: the appearance of cylindrical containers



Workpiece: Cylindrical container (cosmetic product)



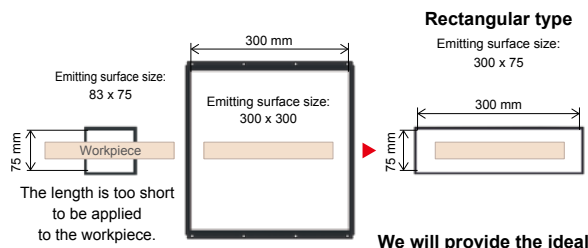
TH2-300X75SW



The state of the surface can be images. Also the printed text is clearly recognized.

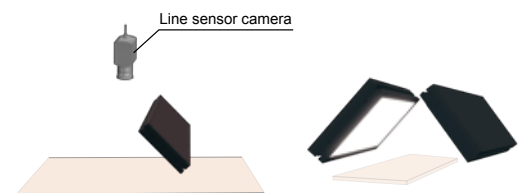
### Comparison of emitting surface sizes

**Ideal for inspecting rectangular workpieces.**  
(For use with area sensor cameras)



**We will provide the ideal size for the workpiece to help you save space.**

**Also applicable to inspection with a line sensor camera**



Sheet-shaped workpieces which are easy to flap

Reproducing the effect of Dome Lights

**Can be used for a wide range of applications.**

LDR2	Direct Lighting
LDR2-LA	Direct Lighting
LDR-LA1	Direct Lighting
SQR	Direct Lighting
SQR-TP	Direct Lighting
HPR2	Diffused Lighting
LFR	Diffused Lighting
LKR	Diffused Lighting
FPR	Diffused Lighting
FPQ2	Diffused Lighting
LDL2	Direct Lighting
LDLB	Direct Lighting
HDL2	Direct Lighting
HL	Direct Lighting
TH2 (5 types)	Diffused Lighting
TH	Diffused Lighting
LFL	Diffused Lighting
HPD2	Diffused Lighting
LDM2	Diffused Lighting
LAV	Diffused Lighting
PDM	Diffused Lighting
LFX3	Diffused Lighting
LFX3-PT	Diffused Lighting
LFX2	Diffused Lighting
LFV3	Diffused Lighting
MSU	Coaxial Lighting
MFU	Coaxial Lighting
PF	Stroke Lighting
HDR-IP/ IQ/HSL-PCL	Water-proof
UV2	Ultraviolet Lighting
UV	Ultraviolet Lighting
LNSP-UV-FN	Ultraviolet Lighting
IR2	Infrared Lighting
IU	Intensely Infrared Control
HLV2	Spot Lighting, Etc.
LV	Spot Lighting, Etc.
LSP	Spot Lighting, Etc.
HFS/HFR	Spot Lighting, Etc.
HLV2-NR	Spot Lighting, Etc.
HLV2-3M-RGB-3W	Spot Lighting, Etc.
PFBR	Convergent Lighting
PFB2	Convergent Lighting
LNLP	Convergent Lighting
LNSP2	Convergent Lighting
LNSP	Convergent Lighting
Coaxial Units	Convergent Lighting
LNSP-FN	Convergent Lighting
LN/LN-HK	Convergent Lighting
LNSD	Diffused Lighting
LND2	Diffused Lighting
HLND	Diffused Lighting
LT	Diffused Lighting
LVN/HLDN	Diffused Lighting
LVNDG	Diffused Lighting
LVNS2	Diffused Lighting
LVNIS	Diffused Lighting
LVNIS-FN	Diffused Lighting
Telecentric Lens	Lenses
Macro Lens	Lenses

We have various materials.

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

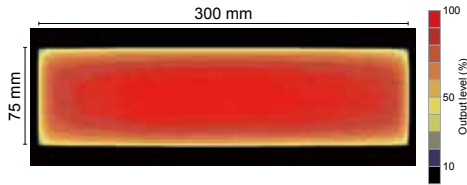
Download here. <http://www.ccs-grp.com/dl/>

## Data (Representative example)

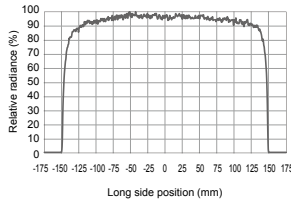
The data included is for reference only. Actual values may vary.

### TH2-300X75SW

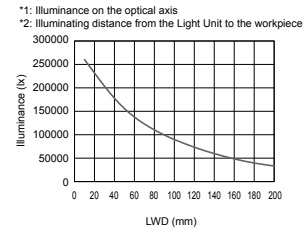
#### Uniformity (Relative radiance)



#### Relative radiance distribution

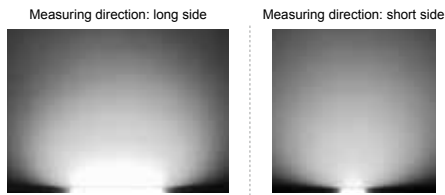


#### Illuminance graph (LWD Characteristics)<sup>1,2</sup>

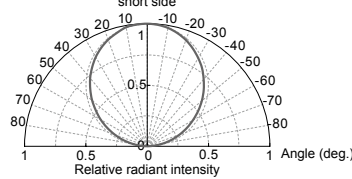


<sup>1</sup>: Illuminance on the optical axis  
<sup>2</sup>: Illuminating distance from the Light Unit to the workplace

#### Characteristic of the illumination distribution

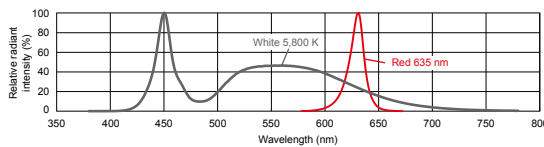


#### Illumination distribution characteristics: short side



## LED properties

### Spectral distribution



CCS offers you the most suitable lens filter for each wavelength. For details about the lens filter, refer to P.287.

Be sure to read the "Instruction Guide" included with the product before use and follow the safety precautions upon use. The data included is for reference only. Actual values may vary.

## Lineup

Model name	LED color	Power consumption	Peak wavelength/ correlated color temperature	Options	Extension cables	Recommended Control Units	Weight
TH2-300X75RD	Red	24 V / 54 W	635 nm	-	FCB-EL2 Straight Cable	PD3-10024-8	650 g
TH2-300X75SW	White	24 V / 68 W	5,800 K		FCB-W-EL2 2-branch Cable	POD-22024-4-PEI* <sup>1</sup> PSB3-30024	

Extension Cables ▶ P.296

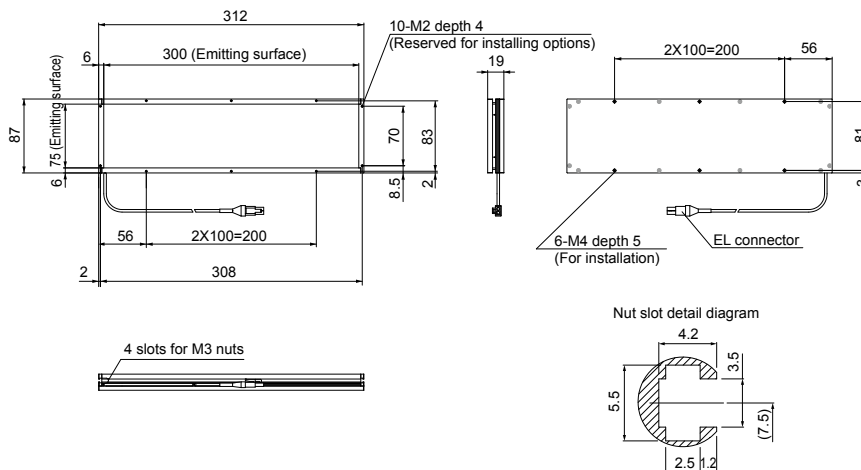
Control Unit Selection Guide ▶ P.243

List of Control Unit Specifications ▶ P.245

\*1 For information on the combination of Light Units and POD-series Control Unit, please refer to our website. <http://www.ccs-grp.com/lnk/qr/pod>

## Dimensions (mm)

### TH2-300X75RD/SW



You can change the connectors of the Light Unit cable. Choose between M12 connectors and flying leads. Refer to P.5 for details.

You can inquire using our website.

Requests for Light Unit Selection

Requests for Loan Products

Requests for Estimates

Requests for a Catalog

Product Inquiries

Other Inquiries

Inquire on our website here. <http://www.ccs-grp.com/contact/>