

# Line Lights LNSP-FN series

Refer to our website for product details.

CCS LNSP-FN

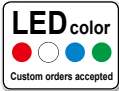
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Uses original converging technology to achieve illumination with reduced diffusion  
High output Line Lights with forced air cooling (fan cooling)



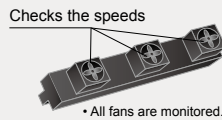
LNSP-400SW-FN

**Applications** Inspection for parts mounted on circuit boards, inspection for scratches on clear film, inspecting sheet alignment, inspection of unevenness in sheet metal, and visual inspection for plastic products, etc.

## Avoid trouble with error detection

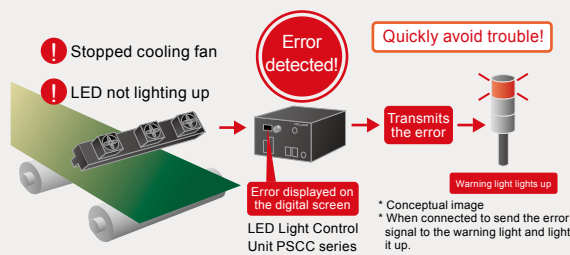
### 1) Error detection for cooling fans

An error is detected should a fault occur, such as insufficient speed or a stop in the cooling fans.



### 2) Error detection for the LEDs

Detects dead LEDs due to an open in the Light Unit circuit or a shorted LED.



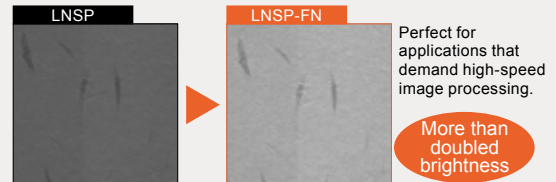
\* Error detection is a function included with the PSCC series, the recommended Control Units.

## Illuminance of 900,000 lx with forced air cooling (fan cooling)

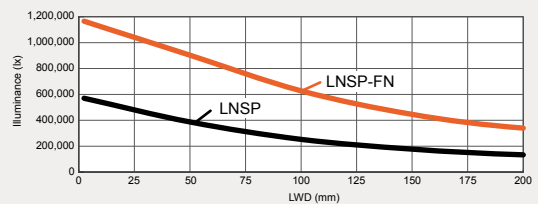
Perfect for applications that demand high-speed image processing. Also allows for even imaging with a high degree of uniformity.

### Comparison of illuminance for the LNSP and LNSP-FN

Comparison of imaging of paper (Japanese paper)



\* Brightness varies based on the camera's spectral sensitivity.



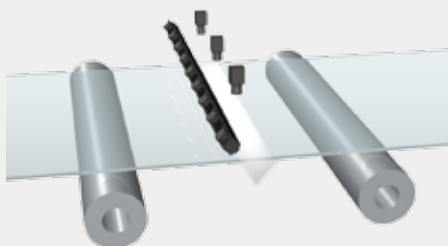
\* Actual measurement values at 100% intensity in each illuminating distance. (This does not guarantee product quality.)

\* LWD is the distance from the Light Unit to the workpiece.

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

## Applications

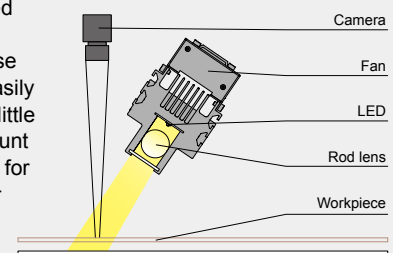
### Glass damage inspection



## Example configuration

High-output Line Lights with forced air cooling (fan cooling). Because light does not easily diffuse, there is little loss for the amount of light, allowing for illumination over long distances.

### LNSP-FN series



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.

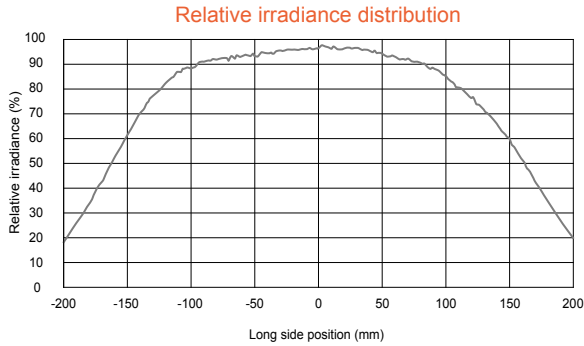
<http://www.ccs-grp.com/dl/>

Direct Lighting	LDR2
	LDR2-LA
	LDR-LA1
	SQR
	SQR-TP
Convergent Lighting	HLDL-IP
Diffused Lighting	HPR2
	HPR
	LFR
	LKR
	FPR
	FPQ2
Direct Lighting	LDL2
	LDLB
	HLDL2
Diffused Lighting	TH
	LFL
	HPD2
	HPD
	LDM2
	LAV
	PDM
	LFX2
	LFV3
	LFV2
Collimated Lighting	MSU
	MFU
Ultraviolet Lighting	UV2
	UV
	LNSP-UV-FN
Infrared Lighting	IR2
Spot Lighting, Etc.	HLV2
	LV
	LSP
	HFS/HFR
	HLV2-NR
	HLV2-3M-RGB-3W
	PFB2
	PFBR
	LNSP
	CU-LNSP
LNSP-FN	
LN/LN-HK	
Diffused Lighting	LNSD
	LN2
	HLND
	LT
	LVN/HLDN
Oblique Angled Lighting	LNIS
	LNIS-FN
Lenses	Telecentric Lens
	Macro Lens

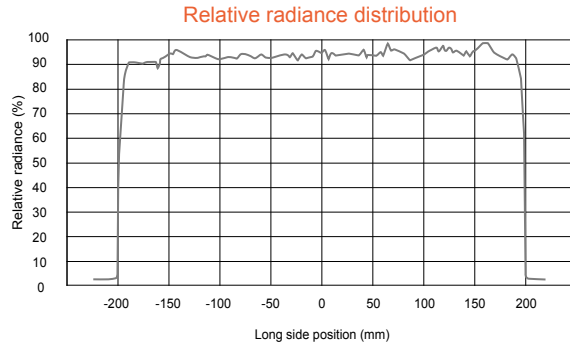
## Data (Representative example)

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

### LNSP-400SW-FN

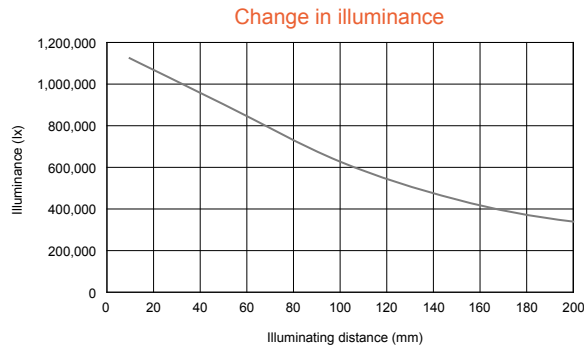


\* Actual measurement values at 100% intensity in 100 mm illuminating distance. (This does not guarantee product quality.)

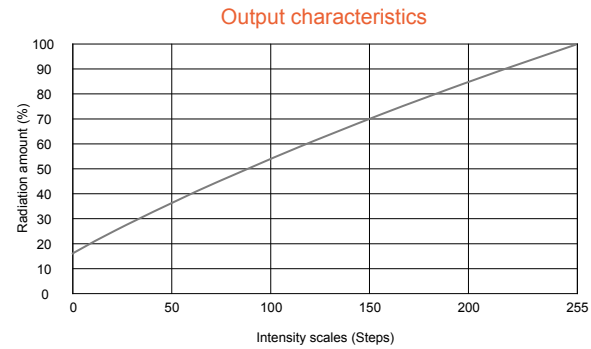


\* Actual measurement values at 100% intensity in 100 mm illuminating distance. (This does not guarantee product quality.)

### LNSP-1500SW-FN



\* Actual measurement values at 100% intensity in each illuminating distance. (This does not guarantee product quality.)



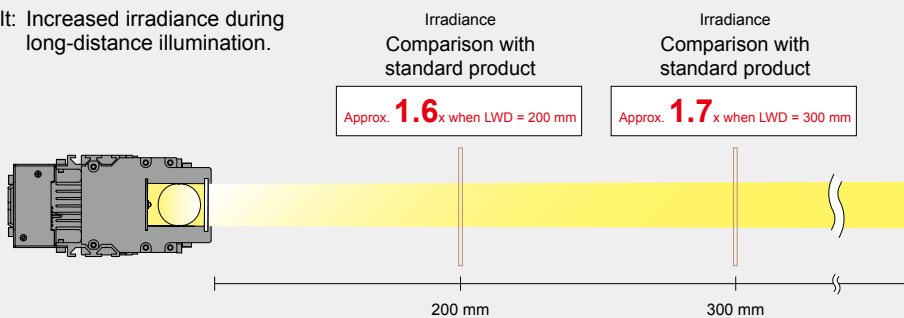
\* Actual measurement values using the Analog Control Unit PSCC-60048. (This does not guarantee product quality.)

## Custom orders

Please contact your CCS sales representative.

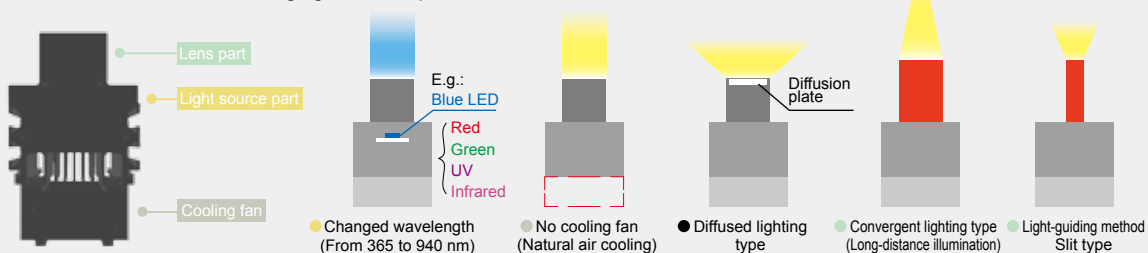
Example 1: Changes specifications for the rod lens diameter

Result: Increased irradiance during long-distance illumination.



Example 2: Changes specifications to match application

Allows for customization including light source part



You can inquire using our website.

Requests for Light Unit Selection

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Requests for Estimates

Requests for a Catalog

Product Inquiries

Other Inquiries

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

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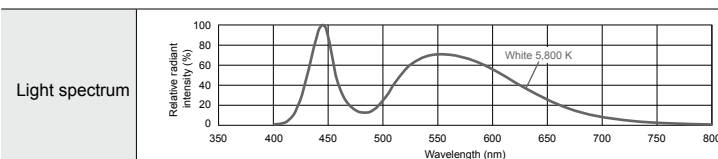
## Lineup

Model name	LED color	Power consumption (Including the fan)	Correlated color temperature	Extension cables	Recommended Control Units	Weight
LNSP-100SW-FN	White	41 W	5,800 K	2 m (QCBM-2) (QCB-2)	PSCC-30048 PSCC-60048	900 g
LNSP-200SW-FN		81 W				1,400 g
LNSP-300SW-FN		117 W				1,900 g
LNSP-400SW-FN		157 W				2,400 g
LNSP-500SW-FN		192 W				2,900 g
LNSP-600SW-FN		233 W				3,400 g
LNSP-700SW-FN		268 W				3,900 g
LNSP-800SW-FN		309 W				4,400 g
LNSP-900SW-FN		345 W				4,900 g
LNSP-1000SW-FN		384 W				5,500 g
LNSP-1100SW-FN		425 W				6,000 g
LNSP-1200SW-FN		460 W				6,500 g
LNSP-1300SW-FN		501 W				7,000 g
LNSP-1400SW-FN		536 W				7,500 g
LNSP-1500SW-FN		576 W				8,000 g
LNSP-1600SW-FN	White	613 W	5,800 K	2 m (QCB-2) 3 m (QCB-3) 5 m (QCB-5) 10 m (QCB-10) 20 m (QCB-20)	PSCC-60048 x2	8,800 g
LNSP-1700SW-FN		652 W				9,300 g
LNSP-1800SW-FN		689 W				9,800 g
LNSP-1900SW-FN		728 W				10,300 g
LNSP-2000SW-FN		764 W				10,900 g
LNSP-2100SW-FN		804 W				11,400 g
LNSP-2200SW-FN		844 W				11,900 g
LNSP-2300SW-FN		881 W				12,400 g
LNSP-2400SW-FN		920 W				12,900 g
LNSP-2500SW-FN		956 W				13,400 g
LNSP-2600SW-FN		996 W				13,900 g
LNSP-2700SW-FN		1,032 W				14,400 g
LNSP-2800SW-FN		1,071 W				14,900 g
LNSP-2900SW-FN		1,108 W				15,400 g
LNSP-3000SW-FN		1,148 W				15,900 g

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The emitting surface is available in sizes of 100 mm units. For details about other sizes, inquire with your CCS sales representative. In addition, we accept custom orders, such as changes to the LED color (red/blue/IR/UV, etc.) and size changes. Inquire at your CCS sales representative for details.

## LED properties



Be sure to read the "Instruction Guide" included with the product before use and observe cautionary information. The data included is for reference only and does not guarantee the quality of this product.

We have various materials.

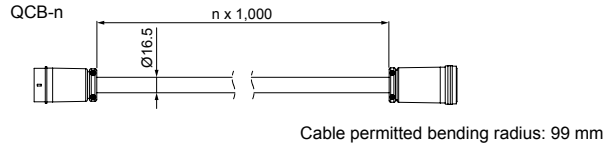
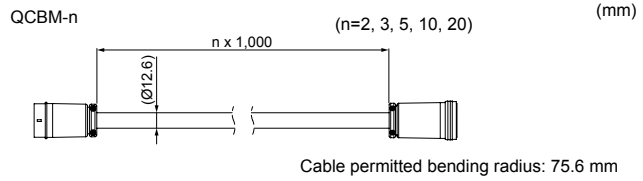
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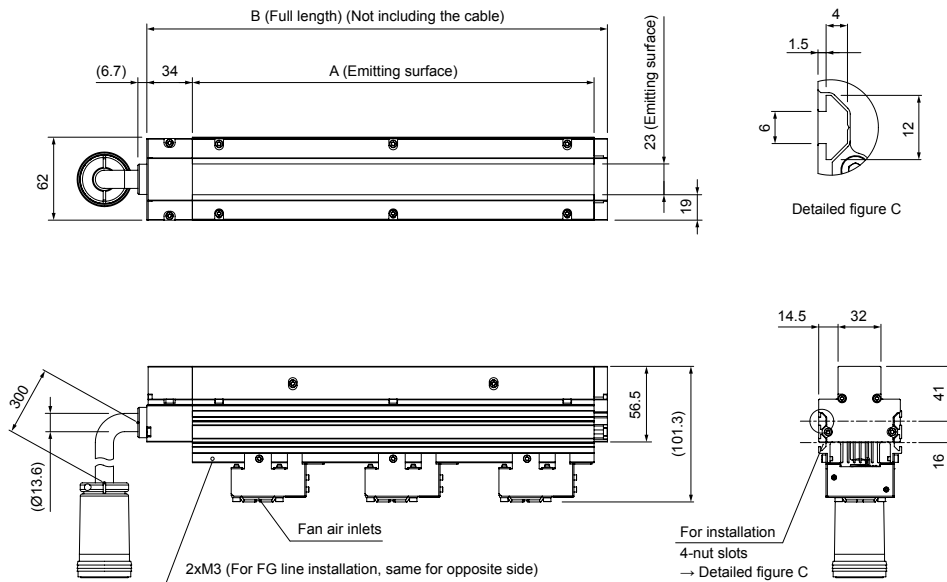
## Extension cables

Model name	Cable length	Weight	Applicable Control Unit
QCBM-2	2 m	800 g	PSCC-30048
QCBM-3	3 m	1,000 g	
QCBM-5	5 m	1,500 g	
QCBM-10	10 m	2,700 g	
QCBM-20	20 m	5,000 g	
QCB-2	2 m	1,100 g	PSCC-60048
QCB-3	3 m	1,500 g	
QCB-5	5 m	2,400 g	
QCB-10	10 m	4,600 g	
QCB-20	20 m	8,900 g	

\* Necessary when connecting the Light Unit to the recommended Control Unit, the PSCC series.



## Dimensions (mm)



\* For sizes 1,600 mm (emitting surface) or longer, a cable comes out of each end of the Light Unit.

	Model name	A (Emitting surface)	B (Full length)	Model name	A (Emitting surface)	B (Full length)
Standard products	LNSP-100SW-FN	100	144	LNSP-1600SW-FN	1,600	1,668
	LNSP-200SW-FN	200	244	LNSP-1700SW-FN	1,700	1,768
	LNSP-300SW-FN	300	344	LNSP-1800SW-FN	1,800	1,868
	LNSP-400SW-FN	400	444	LNSP-1900SW-FN	1,900	1,968
	LNSP-500SW-FN	500	544	LNSP-2000SW-FN	2,000	2,068
	LNSP-600SW-FN	600	644	LNSP-2100SW-FN	2,100	2,168
	LNSP-700SW-FN	700	744	LNSP-2200SW-FN	2,200	2,268
	LNSP-800SW-FN	800	844	LNSP-2300SW-FN	2,300	2,368
	LNSP-900SW-FN	900	944	LNSP-2400SW-FN	2,400	2,468
	LNSP-1000SW-FN	1,000	1,044	LNSP-2500SW-FN	2,500	2,568
	LNSP-1100SW-FN	1,100	1,144	LNSP-2600SW-FN	2,600	2,668
	LNSP-1200SW-FN	1,200	1,244	LNSP-2700SW-FN	2,700	2,768
	LNSP-1300SW-FN	1,300	1,344	LNSP-2800SW-FN	2,800	2,868
	LNSP-1400SW-FN	1,400	1,444	LNSP-2900SW-FN	2,900	2,968
	LNSP-1500SW-FN	1,500	1,544	LNSP-3000SW-FN	3,000	3,068
Special orders						

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