

Diffused Lighting

Line Lights

LT Series

Provides diffused light evenly using an original optical design



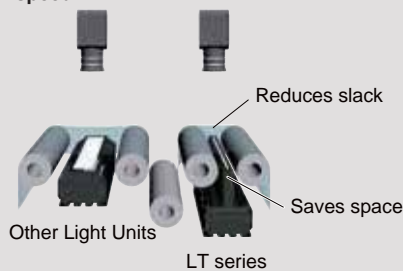
LED color
 Custom orders accepted

Size
 Custom orders accepted

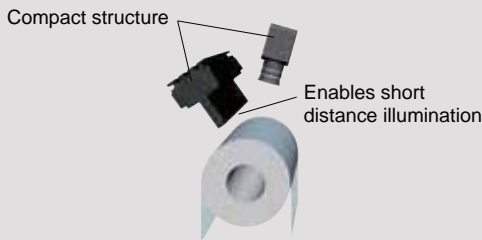
Applications Fish eye inspection on clear film, scratch inspection on film sheets, inspection for cracks or damage on wafers, visual inspection of metal foil sheets, shrinkage inspection of resin, etc.

Provides Optimal Imaging with Its Unique Illuminating Mechanism

By reducing the space between rolls, you can improve inspection speed



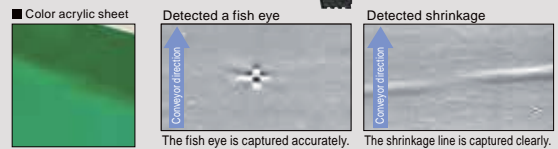
Allows for inspections where the light is installed at a narrow angle with the camera



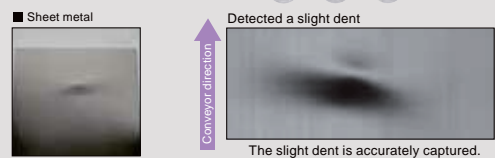
Achieves Both High Uniformity and High Brightness

We achieved both high uniformity and high brightness through our unique optical system. It can perform highly-accurate inspections depending on the scan rate, and supports a wide range of uses.

Transmission imaging



Imaging using specular reflection



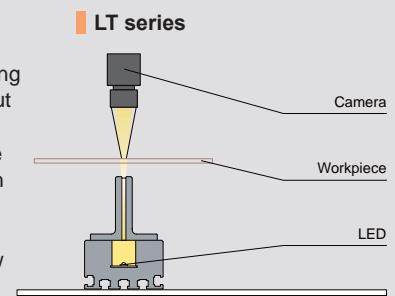
Applications

Inspection for fish eyes, scratches, and foreign materials on clear films



Example Configuration

By employing a mechanism where the emitting surface sticks out from the main unit, it's possible to illuminate with the tip near the inspected item, even in a narrow space.

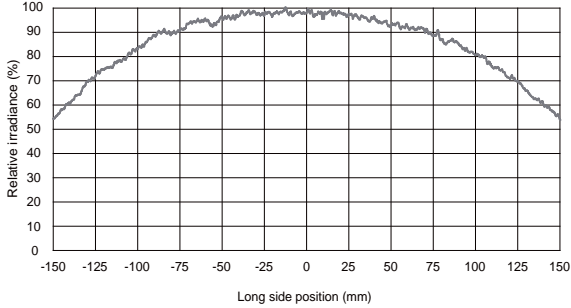


Data (Representative Example)

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

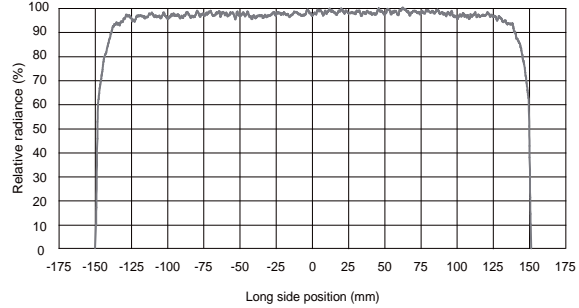
LT-300SW

Relative irradiance distribution



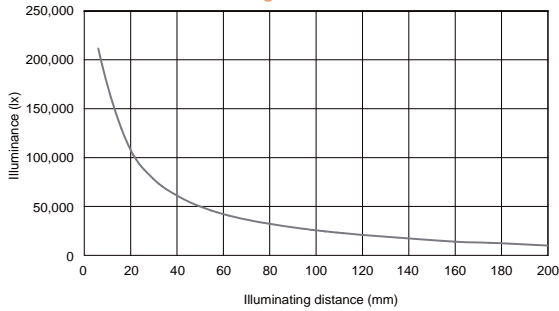
Actual measurement values at 100% intensity in 100 mm illuminating distance. Results for individual products may vary.

Relative radiance distribution



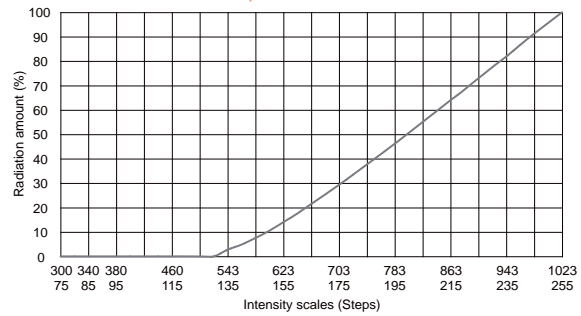
The graph included is for reference only. Actual values may vary.

Change in illuminance



Actual measurement values at 100% intensity in each illuminating distance. Results for individual products may vary.

Output characteristics



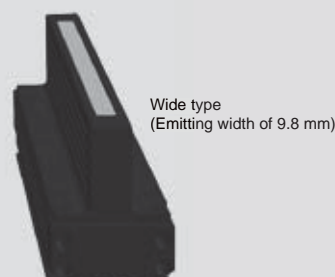
Actual measurement values using the Analog Control Unit PSB4-30024-PEI. Results for individual products may vary. Data obtained when output voltage range is 12 to 24 V.

Custom Order

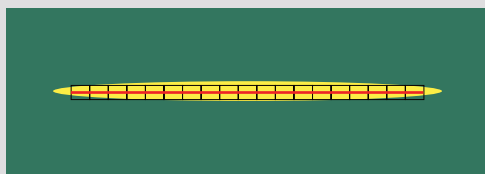
Please contact your sales representative.

E.g.: Widened emitting surface (Changed the standard product's 2.8 mm to 9.8 mm)

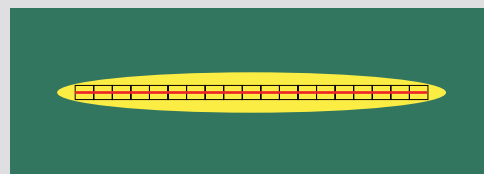
Result: Made it easier to align the line sensor camera axis and the illuminated range when using long Line Lights over 1,000 mm.



Position image of the camera axis and the illuminated range



Position image of the camera axis and the illuminated range



Camera axis ——— Illuminated range ———

Camera axis ——— Illuminated range ———

Direct Lighting	LDR2
	LDR2-LA
	LDR-LA1
	SQR
	SQR-TP
Diffused Lighting	HPR2
	LFR
	LKR
	FPR
	FPQ2
Direct Lighting	LDL2
	LDLB
	HLDL2
	HL
	TH2 (5 types)
	TH
	LFL
Diffused Lighting	HPD2
	LDM2
	LAV
	PDM
	LFX3
	LFX3-PT
	LFV3
Coaxial Lighting	MSU
	MFU
Strobe Lighting	PF
Water-proof Lighting	HLDR-IP/
	HSL-PCL
Ultraviolet Lighting	UV2
	UV
	LNSP-UV-FN
Intensity Control Lighting	IR2
	IU
Spot Lighting, Etc.	HLV3
	HLV2
	LV
	LSP
	HFS/HFR
	HLV3-NR
	HLV3-3M-RGB-4
	HLV2-NR
	HLV2-3M-RGB-3W
	PFBR
	PFB3
	PFB2
Convergent Lighting	LNLP
	LNSP2
	LNSP
	Coaxial Units
	LNSP-FN
	LN/LN-HK
Diffused Lighting	LNSD
	LND2
	HLND
	LT
	LNV
Oblique/Angled Lighting	LNDG
	LNIS2
	LNIS
	LNIS-FN
Lenses	Telecentric Lens
	Macro Lens

LT Series



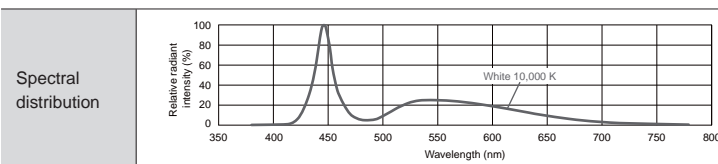
Lineup

Model name	LED color	Power consumption	Correlated color temperature	Extension cables	Recommended Control Units	Weight
LT-100SW	White	15 W	10,000 K	<div style="border: 1px solid black; padding: 2px;">FCB-1.25SQ-ME7</div> <div style="border: 1px solid black; padding: 2px;">FCB-20-2.0SQ-ME7</div>	<div style="border: 1px solid black; padding: 2px;">PSB4-30024-PEI</div>	500 g
LT-200SW		29 W				1,000 g
LT-300SW		43 W				1,500 g
LT-400SW		57 W				2,000 g
LT-500SW		71 W				2,500 g
LT-600SW		85 W				3,000 g
LT-700SW		99 W				3,500 g
LT-800SW		113 W				4,000 g
LT-900SW		128 W				4,500 g
LT-1000SW		142 W				5,000 g
LT-1100SW		156 W				5,500 g
LT-1200SW		170 W				6,000 g
LT-1300SW		184 W				6,500 g
LT-1400SW		198 W				7,000 g
LT-1500SW		212 W				7,500 g
LT-1600SW		226 W				8,000 g
LT-1700SW		240 W				8,500 g
LT-1800SW		255 W				9,000 g

PSB4-30024-PEI Product Page ▶ P.295

The emitting surface is available in sizes of 100 mm units. For details about other sizes, inquire with your 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 sales representative for details.

LED Properties



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.

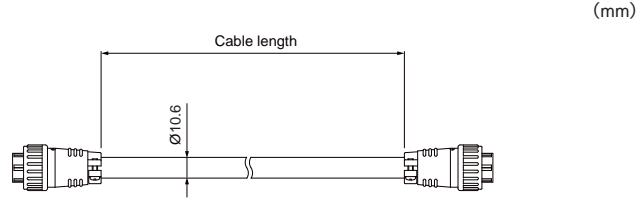
- LDR2
- LDR2-LA
- LDR-LA1
- SQR
- SQR-TP
- HPR2
- LFR
- LKR
- FPR
- FPQ2
- LDL2
- LDLB
- HLDL2
- HL
- TH2 (5 types)
- TH
- LFL
- HPD2
- DM2
- LAV
- PDM
- LFX3
- LFX3-PT
- LFV3
- MSU
- MFU
- PF
- HLDR-IP/
- HSL-PCL
- UV2
- UV
- LNSP-UV-FN
- IR2
- IU
- HLV3
- HLV2
- LV
- LSP
- HFS/HFR
- HLV3-NR
- HLV3-3M-RGB-4
- HLV2-NR
- HLV2-3M-RGB-3W
- PFBR
- PFB3
- PFB2
- LNL
- LNSP2
- LNSP
- Coaxial Units
- LNSP-FN
- LN/LN-HK
- LNSD
- LND2
- HLND
- LT
- LNV
- LNDG
- LNS2
- LNIS
- LNIS-FN
- Telecentric Lens
- Macro Lens

Extension Cables

Necessary when connecting the Light Unit to the recommended Control Unit, PSB4-30024-PEI.

FCB-1.25SQ-ME7

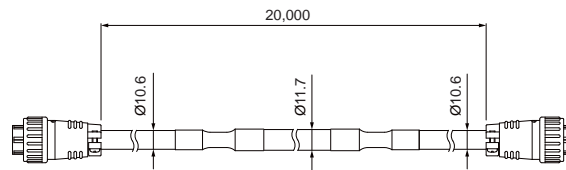
Model name	Cable length	Weight
FCB-2-1.25SQ-ME7	2 m	430 g
FCB-3-1.25SQ-ME7	3 m	580 g
FCB-5-1.25SQ-ME7	5 m	1,000 g
FCB-10-1.25SQ-ME7	10 m	2,000 g



Cable permitted bending radius: 63.6 mm

FCB-20-2.0SQ-ME7

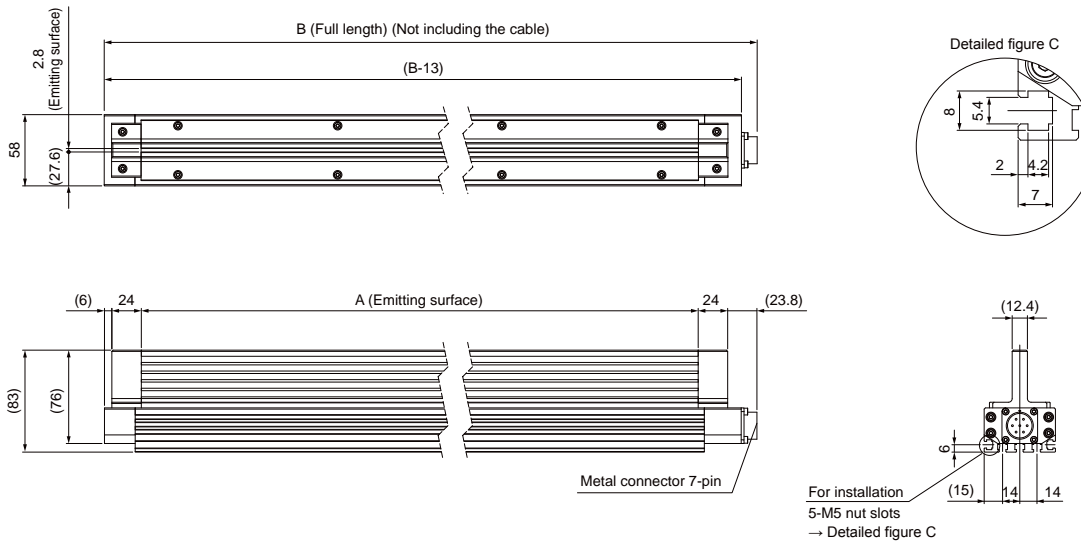
Model name	Cable length	Weight
FCB-20-2.0SQ-ME7	20 m	5,000 g



Cable permitted bending radius: 63.6 mm

The above cable permitted bending radii are reference values. Actual values may vary.

Dimensions (mm)



Model name	A (Emitting surface)	B (Full length)	Model name	A (Emitting surface)	B (Full length)
LT-100SW	100	178	LT-1000SW	1,000	1,078
LT-200SW	200	278	LT-1100SW	1,100	1,178
LT-300SW	300	378	LT-1200SW	1,200	1,278
LT-400SW	400	478	LT-1300SW	1,300	1,378
LT-500SW	500	578	LT-1400SW	1,400	1,478
LT-600SW	600	678	LT-1500SW	1,500	1,578
LT-700SW	700	778	LT-1600SW	1,600	1,678
LT-800SW	800	878	LT-1700SW	1,700	1,778
LT-900SW	900	978	LT-1800SW	1,800	1,878

- Direct Lighting
 - LDR2
 - LDR2-LA
 - LDR-LA1
 - SQR
 - SQR-TP
- Diffused Lighting
 - HPR2
 - LFR
 - LKR
 - FPR
 - FPQ2
- Direct Lighting
 - LDL2
 - LDLB
 - HLDL2
 - HL
 - TH2 (5 types)
 - TH
- Diffused Lighting
 - LFL
 - HPD2
 - LDM2
 - LAV
 - PDM
 - LFX3
 - LFX3-PT
 - LFV3
- Coaxial Lighting
 - MSU
 - MFU
- Strobe Lighting
 - PF
- Water-proof
 - HLDR-IP/ HSL-PCL
- Ultraviolet Lighting
 - UV2
 - UV
 - LNSP-UV-FN
- Infrared Lighting
 - IR2
- Intensity Control
 - IU
- Spot Lighting, Etc.
 - HLV3
 - HLV2
 - LV
 - LSP
 - HFS/HFR
 - HLV3-NR
 - HLV3-3M-RGB-4
 - HLV2-NR
 - HLV2-3M-RGB-3W
 - PFBR
 - PFB3
 - PFB2
- Convergent Lighting
 - LNLP
 - LNSP2
 - LNSP
 - Coaxial Units
 - LNSP-FN
 - LN/LN-HK
- Diffused Lighting
 - LNSD
 - LND2
 - HLND
 - LT
 - LNV
- Oblique/Angled Lighting
 - LNDG
 - LNS2
 - LNIS
 - LNIS-FN
- Lenses
 - Telecentric Lens
 - Macro Lens