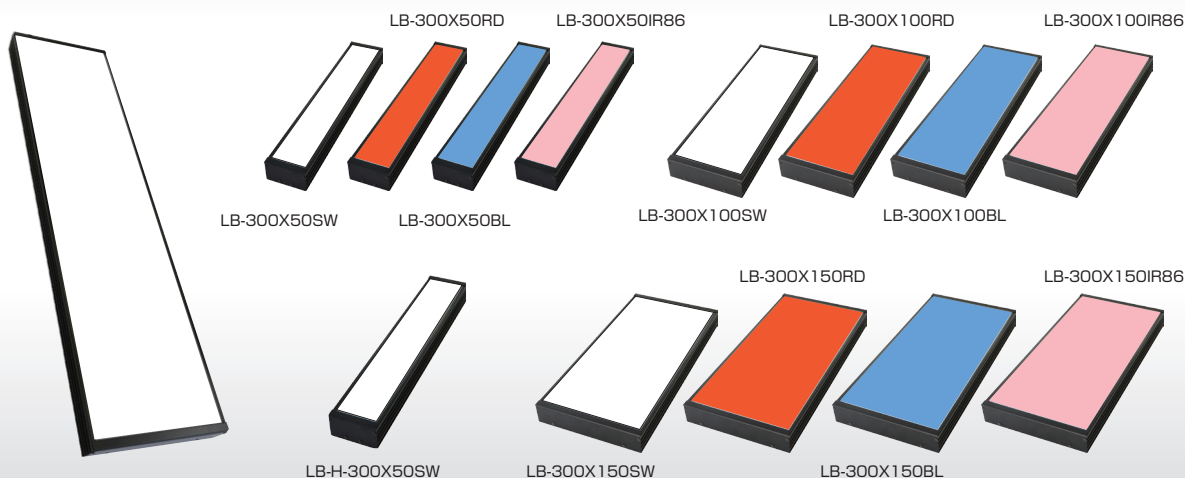




Wide emitting surface uniform diffused lighting

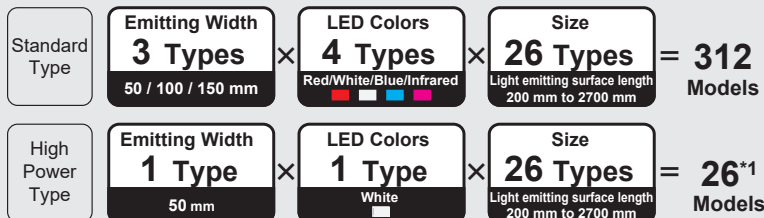


Applications

Inspection of the appearance of square-shaped workpieces, inspection of satin surface, inspection of liquid level in cylindrical containers, inspection of transparent containers, inspection of uneven surface, etc.

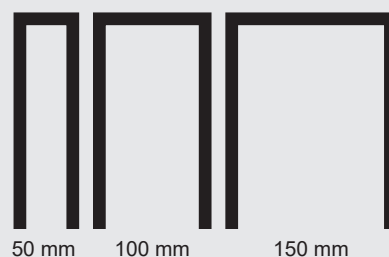
Total of 338 Models Wide Lineup

An extensive lineup of 338 models is available in combinations of light emitting surface size, emitting width, color, etc. The product can be used in a variety of configurations to suit your inspection needs.



*1 High power type is only available in emitting width 50 mm, white.

Choose from 3 Emitting Widths

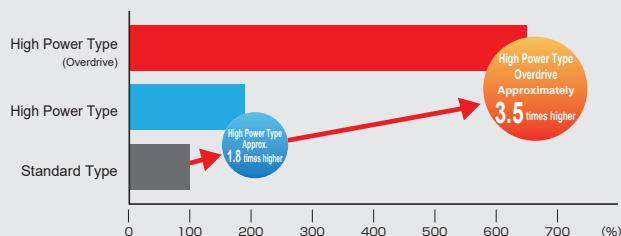


*High power type is only available with an emitting width of 50 mm.

High Power Type with Overdrive Also Available



Brightness Comparison



Measurement conditions: 100% intensity, LWD 50 mm, irradiance comparison between LB-300X50SW and LB-H-300X50SW

Overdrive is only available for high power type sizes 200 to 700.

Model: LB-H-□□X50SW (□□=200 to 700)

For information on the combination of light units and POD Series control units, please refer to our website. <https://www.ccs-grp.com/lnk/qr/pod>

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

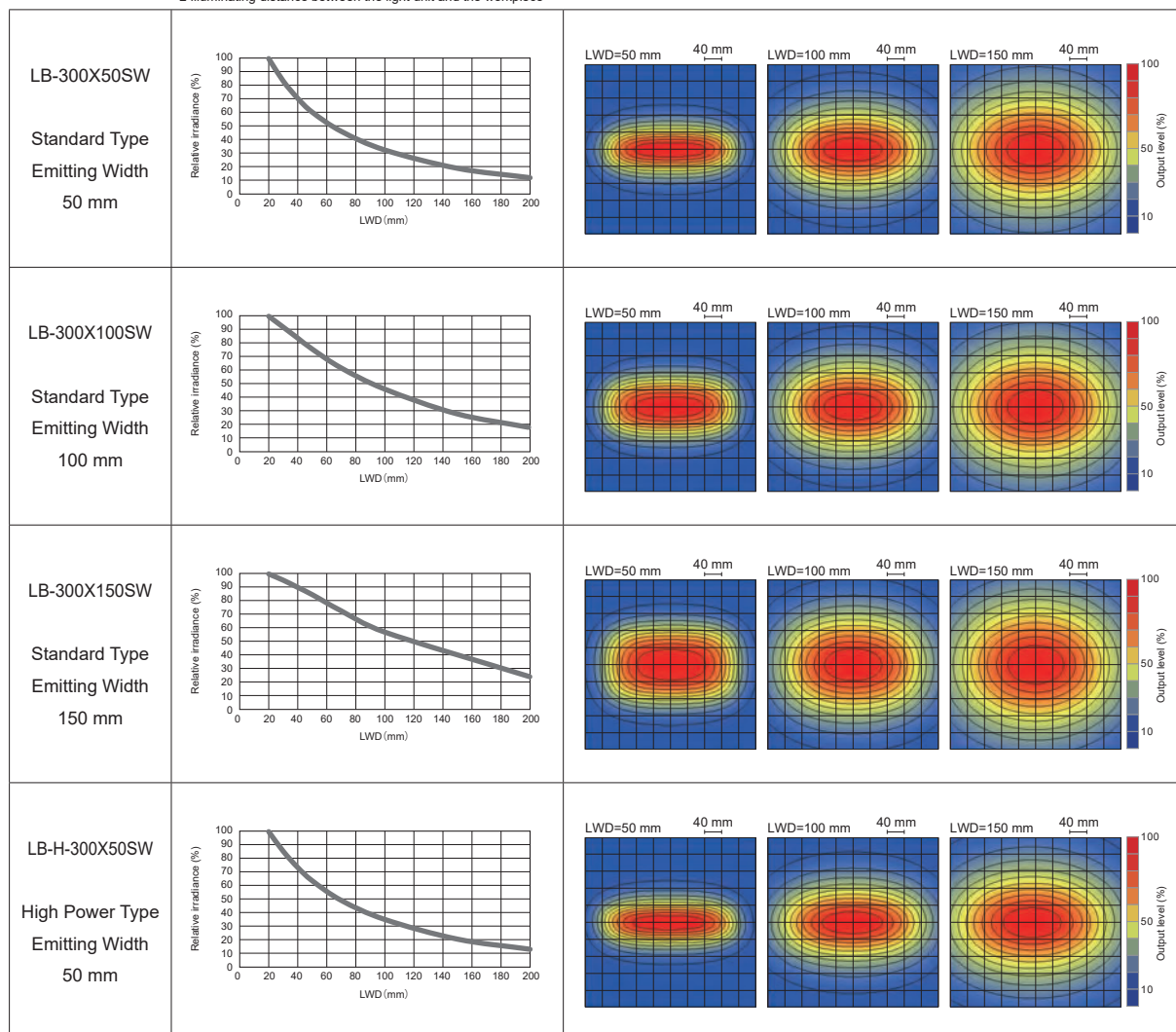
Data: Relative Irradiance Graph and Uniformity (Representative Example)

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

Relative irradiance^{*1} graph (LWD^{*2} characteristics)

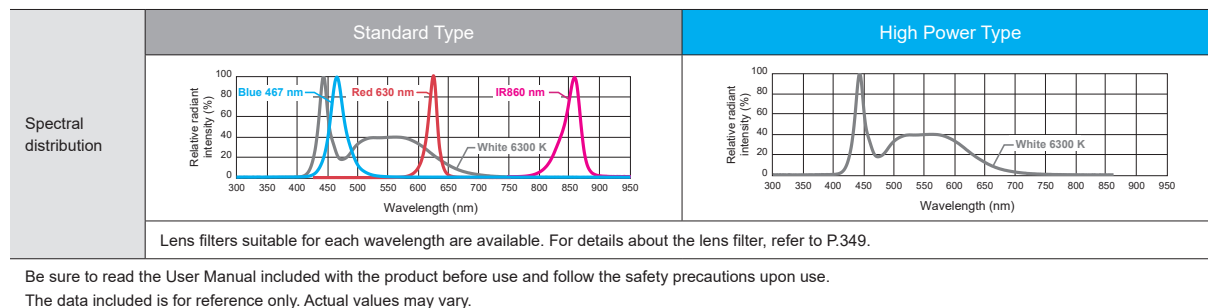
*1 Irradiance on the optical axis
*2 Illuminating distance between the light unit and the workplace

Uniformity (Relative irradiance)



LDR2	Ring	Direct
LDR2-LA	Ring	Direct
LDR-LA1	Ring	Direct
Multi-stage Ring Light	Ring	Direct
SQR	Ring	Direct
SQR-TP	Ring	Direct
HLDR3	Ring	Convergent / Diffused
HPR2	Ring	Convergent / Diffused
LFR	Ring	Convergent / Diffused
LKR	Ring	Convergent / Diffused
FPR	Ring	Convergent / Diffused
FPQ3	Square	Bar
LDL2	Bar	Bar
LDLB	Bar	Bar
HLDL3	Bar	Bar
LB	Bar	Bar
TH2 (5 types)	Flat	Flat
LFL	Flat	Flat
HPD2	Dome	Dome
LDM2	Dome	Dome
LAV	Dome	Dome
LFXV	Dome	Dome
LFX3	Dome	Dome
LFX3-PT	Dome	Dome
LFV3	Coaxial	Coaxial
LFV3-G	Coaxial	Coaxial
MSU	Coaxial	Coaxial
MFU	Coaxial	Coaxial
PF	Stroke	Stroke
HLDR-IP	Water-proof	Water-proof
HSL-PCL	Water-proof	Water-proof
UV3/VL3	UV / Violet	UV / Violet
UV	UV / Violet	UV / Violet
LNSP-UV3-FN	UV / Violet	UV / Violet
IR2 (Under 1000-nm Type)	Infrared	Infrared
IR (Over 1000-nm Type)	Infrared	Infrared
CIR	Infrared	Infrared
LDF-RLS	Reference Light Source	Reference Light Source
IU	Intensity Control	Intensity Control
HLV3	Spot, Etc.	Spot, Etc.
LV	Spot, Etc.	Spot, Etc.
HFS/HFR	Spot, Etc.	Spot, Etc.
HLV3-22-4-NR	Spot, Etc.	Spot, Etc.
HLV3-3M-RGB-4	Spot, Etc.	Spot, Etc.
PFBR-2400SW	Spot, Etc.	Spot, Etc.
PFBR-600SW2	Spot, Etc.	Spot, Etc.
PFBR-150	Spot, Etc.	Spot, Etc.
SLG-150V-CCS	Spot, Etc.	Spot, Etc.
PFB3(A)	Spot, Etc.	Spot, Etc.
LNLP	Line (Convergent)	Line (Convergent)
LNSP2	Line (Convergent)	Line (Convergent)
Coaxial Units	Line (Convergent)	Line (Convergent)
LNFP-FN	Line (Convergent)	Line (Convergent)
LN/LN-HK	Line (Convergent)	Line (Convergent)
LNLD	Line (Diffused)	Line (Diffused)
LND2	Line (Diffused)	Line (Diffused)
LT	Line (Diffused)	Line (Diffused)
LFXV (Rectangular Type)	Line (Diffused)	Line (Diffused)
TH2 (Rectangular Type)	Line (Diffused)	Line (Diffused)
LNDG	Line (Oblique Angled)	Line (Oblique Angled)
LNIS2	Line (Oblique Angled)	Line (Oblique Angled)
LNIS	Line (Oblique Angled)	Line (Oblique Angled)
LNIS-FN	Line (Oblique Angled)	Line (Oblique Angled)
Telecentric Lens	Lenses	Lenses
Macro Lens	Lenses	Lenses
LDF-NB	Other Products	Other Products

LED Properties



You can inquire using our website.

Sample Testing	Light Unit Selection	Free Product Trial	Custom Orders	Product Details	Pricing/Quotation	Discontinued Products
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Inquire on our website here.
<https://www.ccs-grp.com/contact/>

LB Series



Refer to our website for product details.

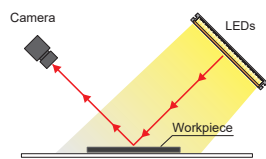
CCS LB

Search



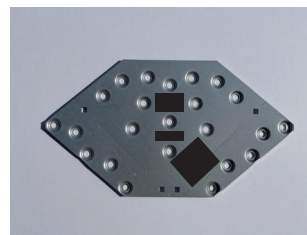
Imaging Example: Specular Reflection Observation Satin Metal Sheet ID Mark Inspection

Example Configuration



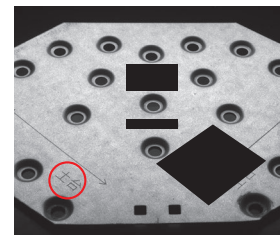
Diffused lighting is illuminated from a slanted angle to observe the specular reflection. Light emitting surface width can be selected to match the workpiece and characteristics.

Workpiece



Satin metal plate

LB-300X150SW



Uniform illumination of wide satin surfaces for clear ID mark imaging.

Imaging Example: Specular Reflection Observation Transparent Workpiece Surface Inspection

Workpiece



Plastic sheet

LNSD-300SW(A)



For highly deflective workpieces, brightness is not uniform.

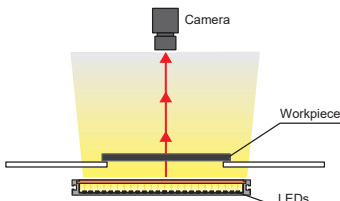
LB-300X50SW



Wide light-emitting surface reduces the effect of deflection for uniform brightness throughout the entire image.

Imaging Example: Backlight Transparent Container Stain Inspection

Example Configuration



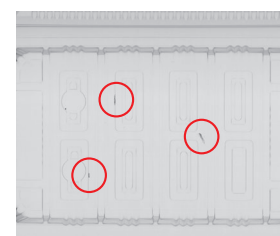
Diffused lighting is illuminated from the back of the workpiece. Suitable for translucent workpiece foreign contamination inspection, liquid level inspection, silhouette inspection, etc.

Workpiece



Transparent container

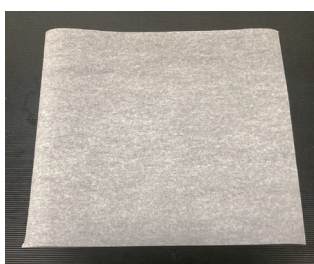
LB-300X150SW



Uniform diffused lighting illumination from a wide light emitting surface minimizes the effect of unevenness and clearly images stains.

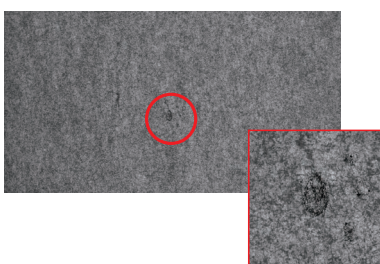
Imaging Example: Backlight Inspection for Dirt on Fiber Workpieces

Workpiece



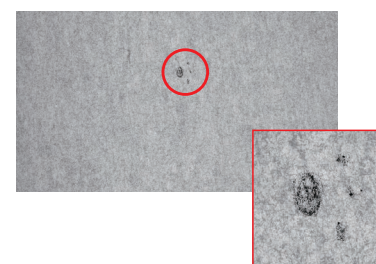
Tracing paper

LNSD-300SW(A)



The light-emitting surface is narrow and the angle of light to the surface is small, reducing the overall light hitting the paper and making it difficult to see the dirt.

LB-300X150BL

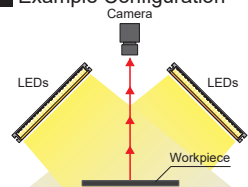


The large light-emitting surface allows light to hit the paper from multiple directions, making it easier to see the difference between stains and paper.

Ring (Direct)	LDR2
	LDR2-LA
	LDR-LA1
	Multi-stage Ring Light
Ring (Convergent/Diffused)	SQR
	SQR-TP
	HLDR3
	HPR2
Square	LFR
	LKR
	FPR
	FPQ3
Bar	LDL2
	LDLB
	HLDL3
	LB
Flat	TH2 (5 types)
	LFL
	HPD2
	LDM2
Dome	LAV
	LFXV
	LFX3
	LFX3-PT
Coaxial	LFV3
	LFV3-G
	MSU
	MFU
Water-proof	PF
	HLDR-IP
	HSL-PCL
	UV3/VL3
UV / Violet	UV
	LNSP-UV3-FN
Infrared	IR2 (Under 1000-nm Type)
	IR (Over 1000-nm Type)
	CIR
	LDF-RLS
Reference Light Source	IU
Intensity Control	HLV3
	LV
	HFS/HFR
	HLV3-22-4-NR
Spot, Etc.	HLV3-3M-RGB-4
	PFBR-2400SW
	PFBR-600SW2
	PFBR-150
Line (Convergent)	SLG-150V-CCS
	PFB3(A)
	LNL
	LNSP2
Line (Diffused)	Coaxial Units
	LNSP-FN
	LN/LN-HK
	LNSD
Line (Oblique Angled)	LND2
	LT
	LFXV (Rectangular Type)
	TH2 (Rectangular Type)
Lenses	LNDG
	LNIS2
	LNIS
	LNIS-FN
Other Products	Telecentric Lens
	Macro Lens
	LDF-NB

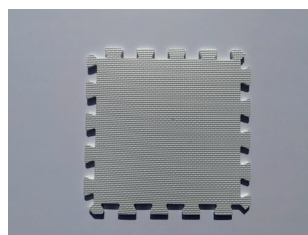
➤ Imaging Example: Diffused Dome Illumination Scratch Inspection of Uneven Mats

Example Configuration



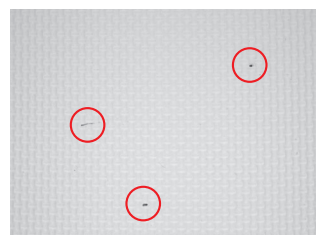
Uniform diffused lighting is illuminated from 2 directions to reproduce the dome effect. Images can be captured with minimal shading and halation effects on uneven surfaces.

Workpiece



Joint mat

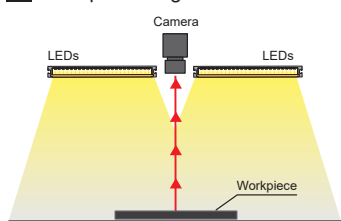
LB-600X150SW × 2 units



Clear imaging of scratches by suppressing shadows on uneven surfaces.

➤ Imaging Example: Wide-range Uniform Illumination Foreign Contamination Inspection of Non-Woven Fabrics

Example Configuration



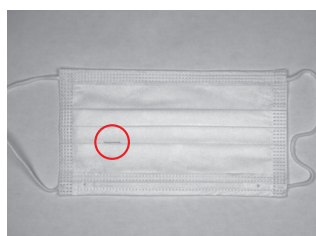
Uniform diffused lighting is illuminated on the same axis as the camera. Also effective for wide-area imaging, such as wide workpieces, etc.

Workpiece



Mask

LB-300X150SW × 2 units



Clear imaging of foreign contamination that overlaps the shadows of the seams.

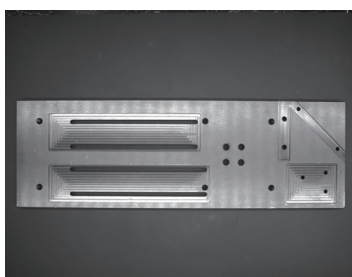
➤ Imaging Example: Wide-range Uniform Illumination Surface Inspection of Metal Machined Parts

Workpiece



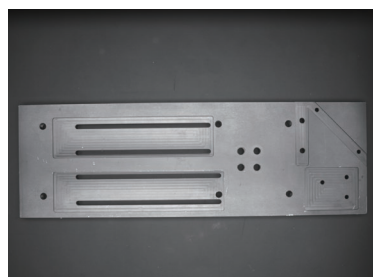
Aluminum machined parts
(black anodized aluminum)

HLDL3-750X28SW-DF-W



Not uniformly illuminated.
The cutting marks on the machined surface stand out.

LB-700X150SW



Uniformly illuminated to capture images with no cutting marks visible.

➤ Imaging Example: Wide-range Uniform Illumination Robot Picking/Positioning of Metal Parts

Workpiece



Metal plates
(satin finish)

HLDL3-600X28SW-DF-W



Uneven lighting overall and unable to capture images with uniform brightness.

LB-600X150SW



Uniform brightness across the entire image.

LDR2	Ring (Direct)
LDR2-LA	Ring (Direct)
LDR-LA1	Ring (Direct)
Multi-stage Ring Light	Ring (Direct)
SQR	Ring (Direct)
SQR-TP	Ring (Direct)
HLDR3	Ring (Convergent / Diffused)
HPR2	Ring (Convergent / Diffused)
LFR	Ring (Convergent / Diffused)
LKR	Ring (Convergent / Diffused)
FPR	Ring (Convergent / Diffused)
FPQ3	Square
LDL2	Bar
LDLB	Bar
HLDL3	Bar
LB	Bar
TH2 (5 types)	Flat
LFL	Flat
HPD2	Dome
LDM2	Dome
LAV	Dome
LFXX	Dome
LFXX-PT	Dome
LFV3	Coaxial
LFV3-G	Coaxial
MSU	Coaxial
MFU	Coaxial
PF	Strobe
HLDR-IP	Water-proof
HSL-PCL	Water-proof
UV3/VL3	UV / Violet
UV	UV / Violet
LNSP-UV3-FN	UV / Violet
IR2 (Under 1000-nm Type)	Infrared
IR (Over 1000-nm Type)	Infrared
CIR	Infrared
LDF-RLS	Reference Light Source
IU	Intensity Control
HLV3	Spot, Etc.
LV	Spot, Etc.
HFS/HFR	Spot, Etc.
HLV3-22-4-NR	Spot, Etc.
HLV3-3M-RGB-4	Spot, Etc.
PFBR-2400SW	Spot, Etc.
PFBR-600SW2	Spot, Etc.
PFBR-150	Spot, Etc.
SLG-150V-CCS	Spot, Etc.
PFB3(A)	Spot, Etc.
LNLP	Line (Convergent)
LNSP2	Line (Convergent)
Coaxial Units	Line (Convergent)
LNSP-FN	Line (Convergent)
LN/LN-HK	Line (Convergent)
LNSD	Line (Diffused)
LND2	Line (Diffused)
LT	Line (Diffused)
LFXX (Rectangular Type)	Line (Diffused)
TH2 (Rectangular Type)	Line (Diffused)
LNDG	Line (Oblique Angled)
LNIS2	Line (Oblique Angled)
LNIS	Line (Oblique Angled)
LNIS-FN	Line (Oblique Angled)
Telecentric Lens	Lenses
Macro Lens	Lenses
LDF-NB	Other Products



Refer to our website for product details.

CCS LB

► Search



Lineup (Standard Type)

Emitting Width	Model Name ^{*1}	Power Consumption				Options	Extension Cables	Recommended Control Units	Weight
		RD (Red)	SW (White)	BL (Blue)	IR86 (Infrared)				
50 mm	LB-200X50□□		18 W		10 W	Diffusion Plates Polarizing Plates^{*4} Protective Plates *4 Excluding infrared.	FCB-EL2 FCB-EL2^{*3} FCB-1.25SQ-ME7^{*4} FCB-20.20SQ-ME7^{*4} *3 Can only use infrared. *4 Excluding infrared.	PD4 PD3 PD4^{*3} PD3^{*3} PSB4 *3 Can only use infrared. PD4^{*3} PSB4 *3 Can only use infrared.	470 g
	LB-300X50□□		27 W		15 W				610 g
	LB-400X50□□		36 W		20 W				750 g
	LB-500X50□□		45 W		24 W				890 g
	LB-600X50□□		54 W		29 W				1,030 g
	LB-700X50□□		63 W		34 W				1,170 g
	LB-800X50□□		72 W		39 W				1,310 g
	LB-900X50□□		81 W		44 W				1,450 g
	LB-1000X50□□		90 W		48 W				1,590 g
	LB-1100X50□□		99 W		53 W				1,730 g
	LB-1200X50□□		108 W		58 W				1,870 g
	LB-1300X50□□		117 W		63 W				2,010 g
	LB-1400X50□□		125 W		68 W				2,150 g
	LB-1500X50□□		134 W		72 W				2,290 g
	LB-1600X50□□		143 W		77 W				2,430 g
	LB-1700X50□□		152 W		82 W				2,570 g
	LB-1800X50□□		161 W		87 W				2,710 g
	LB-1900X50□□		170 W		92 W				2,850 g
	LB-2000X50□□		179 W		96 W				2,990 g
	LB-2100X50□□		188 W		101 W				3,130 g
	LB-2200X50□□		197 W		106 W				3,270 g
	LB-2300X50□□		206 W		111 W				3,410 g
	LB-2400X50□□		215 W		116 W				3,550 g
	LB-2500X50□□		224 W		120 W				3,690 g
	LB-2600X50□□		233 W		125 W				3,830 g
	LB-2700X50□□		242 W		130 W				3,970 g
100 mm	LB-200X100□□		36 W		20 W	Diffusion Plates Polarizing Plates^{*4} Protective Plates *4 Excluding infrared.	FCB-EL2 FCB-EL2^{*3} FCB-1.25SQ-ME7^{*4} FCB-20.20SQ-ME7^{*4} *3 Can only use infrared. *4 Excluding infrared.	PD4 PD3 PD4^{*3} PD3^{*3} PSB4 *3 Can only use infrared. PD4^{*3} PSB4 *3 Can only use infrared.	770 g
	LB-300X100□□		54 W		29 W				1,010 g
	LB-400X100□□		72 W		39 W				1,250 g
	LB-500X100□□		90 W		48 W				1,490 g
	LB-600X100□□		108 W		58 W				1,730 g
	LB-700X100□□		125 W		68 W				1,970 g
	LB-800X100□□		143 W		77 W				2,210 g
	LB-900X100□□		161 W		87 W				2,450 g
	LB-1000X100□□		179 W		96 W				2,690 g
	LB-1100X100□□		197 W		106 W				2,930 g
	LB-1200X100□□		215 W		116 W				3,170 g
	LB-1300X100□□		233 W		125 W				3,410 g
	LB-1400X100□□		250 W		135 W				3,650 g
	LB-1500X100□□		268 W		144 W				3,890 g
	LB-1600X100□□		286 W		154 W				4,130 g
	LB-1700X100□□		304 W		164 W				4,370 g
	LB-1800X100□□		322 W		173 W				4,610 g
	LB-1900X100□□		340 W		183 W				4,850 g
	LB-2000X100□□		358 W		192 W				5,090 g
	LB-2100X100□□		375 W		202 W				5,330 g
	LB-2200X100□□		393 W		212 W				5,570 g
	LB-2300X100□□		411 W		221 W				5,810 g
	LB-2400X100□□		429 W		231 W				6,050 g
	LB-2500X100□□		447 W		240 W				6,290 g
	LB-2600X100□□		465 W		250 W				6,530 g
	LB-2700X100□□		483 W		260 W				6,770 g

*1 □□ in the model name contains the LED color. (RD: Red, SW: White, BL: Blue, IR86: Infrared)

*2 Connect these connectors to the two output connectors that power the lighting on the same channel of the control unit. For example, for PSB4 Series control units, connect to the L1-1 and L1-2 output connectors.

Use 2 extension cables of the same length. If the two extension cables are of different lengths, the different cable specs may lead to uneven light emission.

Extension Cables ► P.361

Control Unit Selection Guide ► P.285

List of Control Unit Specifications ► P.287

Lineup (Standard Type)

Emitting Width	Model Name ^{*1}	Power Consumption				Options	Extension Cables	Recommended Control Units	Weight
		RD (Red)	SW (White)	BL (Blue)	IR86 (Infrared)				
150 mm	LB-200X150□□		54 W		29 W			PD4 PD3	1,030 g
	LB-300X150□□		81 W		44 W		FCB-EL2		1,350 g
	LB-400X150□□		108 W		58 W			PD4 ^{*4} PD3 ^{*4}	1,670 g
	LB-500X150□□		134 W		72 W			PSB4	1,990 g
	LB-600X150□□		161 W		87 W		FCB-EL2 ^{*4}	^{*4} Can only use infrared.	2,310 g
	LB-700X150□□		188 W		101 W		FCB-1.25SQ-ME7 ^{*5}	PD4 ^{*4} PSB4	2,630 g
	LB-800X150□□		215 W		116 W		FCB-20.20SQ-ME7 ^{*5}	^{*4} Can only use infrared.	2,950 g
	LB-900X150□□		242 W		130 W		^{*4} Can only use infrared. ^{*5} Excluding infrared.		3,270 g
	LB-1000X150□□		268 W		144 W		FCB-1.25SQ-ME7		3,590 g
	LB-1100X150□□		295 W		159 W		FCB-20.20SQ-ME7		3,910 g
	LB-1200X150□□		322 W		173 W	Diffusion Plates			4,230 g
	LB-1300X150□□		349 W		188 W	Polarizing Plates ^{*5}			4,550 g
	LB-1400X150□□		375 W		202 W	Protective Plates			4,870 g
	LB-1500X150□□		402 W		216 W	^{*5} Excluding infrared.	FCB-1.25SQ-ME7	PSB4	5,190 g
	LB-1600X150□□		429 W		231 W		FCB-20.20SQ-ME7		5,510 g
	LB-1700X150□□		456 W		245 W		^{*2} Requires 2 cables. (Excluding infrared)		5,830 g
	LB-1800X150□□		483 W		260 W				6,150 g
	LB-1900X150□□		509 W		274 W				6,470 g
	LB-2000X150□□		536 W		288 W		FCB-1.25SQ-ME7		6,790 g
	LB-2100X150□□		563 W		303 W		FCB-20.20SQ-ME7		7,110 g
	LB-2200X150□□		590 W		317 W		^{*2} Requires 2 cables.		7,430 g
	LB-2300X150□□		617 W		332 W		FCB-1.25SQ-ME7	PSB4 ^{*4}	7,750 g
	LB-2400X150□□		643 W		346 W		FCB-20.20SQ-ME7	^{*3} Please contact us for control units with red, white, and blue light emitting colors. ^{*4} Can only use infrared.	8,070 g
	LB-2500X150□□		670 W		360 W		^{*2} Requires 2 cables. ^{*3} Please contact us for control units with red, white, and blue light emitting colors.		8,390 g
	LB-2600X150□□		697 W		375 W				8,710 g
	LB-2700X150□□		724 W		389 W				9,030 g

^{*1} □□ in the model name contains the LED color. (RD: Red, SW: White, BL: Blue, IR86: Infrared)

^{*2} Connect these connectors to the two output connectors that power the lighting on the same channel of the control unit. For example, for PSB4 Series control units, connect to the L1-1 and L1-2 output connectors. Use 2 extension cables of the same length. If the two extension cables are of different lengths, the different cable specs may lead to uneven light emission.

^{*3} For extension cables and control units for LB-2300/2400/2500/2600/2700X150 (excluding infrared), please contact our sales representative.

Extension Cables ▶ P.361

Control Unit Selection Guide ▶ P.285

List of Control Unit Specifications ▶ P.287

Lineup (High Power Type)

Emitting Width	Model Name	LED Emitting Color	Power Consumption	Options	Extension Cables	Recommended Control Units	Weight
50 mm	LB-H-200X50SW	White	28 W				470 g
	LB-H-300X50SW		42 W			PD4	610 g
	LB-H-400X50SW		56 W			PD3 POD	750 g
	LB-H-500X50SW		70 W				890 g
	LB-H-600X50SW		84 W		FCB-EL2		1,030 g
	LB-H-700X50SW		98 W			PD4 PSB4 POD	1,170 g
	LB-H-800X50SW		112 W			PD4 PSB4	1,310 g
	LB-H-900X50SW		126 W				1,450 g
	LB-H-1000X50SW		140 W				1,590 g
	LB-H-1100X50SW		154 W				1,730 g
	LB-H-1200X50SW		168 W				1,870 g
	LB-H-1300X50SW		181 W	Diffusion Plates			2,010 g
	LB-H-1400X50SW		195 W	Polarizing Plates			2,150 g
	LB-H-1500X50SW		209 W	Protective Plates	FCB-1.25SQ-ME7		2,290 g
	LB-H-1600X50SW		223 W		FCB-20.20SQ-ME7		2,430 g
	LB-H-1700X50SW		237 W			PSB4	2,570 g
	LB-H-1800X50SW		251 W				2,710 g
	LB-H-1900X50SW		265 W				2,850 g
	LB-H-2000X50SW		279 W				2,990 g
	LB-H-2100X50SW		293 W				3,130 g
	LB-H-2200X50SW		307 W				3,270 g
	LB-H-2300X50SW		321 W				3,410 g
	LB-H-2400X50SW		335 W				3,550 g
	LB-H-2500X50SW		348 W				3,690 g
	LB-H-2600X50SW		362 W				3,830 g
	LB-H-2700X50SW		376 W				3,970 g

^{*1} Connect these connectors to the two output connectors that power the lighting on the same channel of the control unit. For example, for PSB4 Series control units, connect to the L1-1 and L1-2 output connectors. Use 2 extension cables of the same length. If the two extension cables are of different lengths, the different cable specs may lead to uneven light emission.

Extension Cables ▶ P.361

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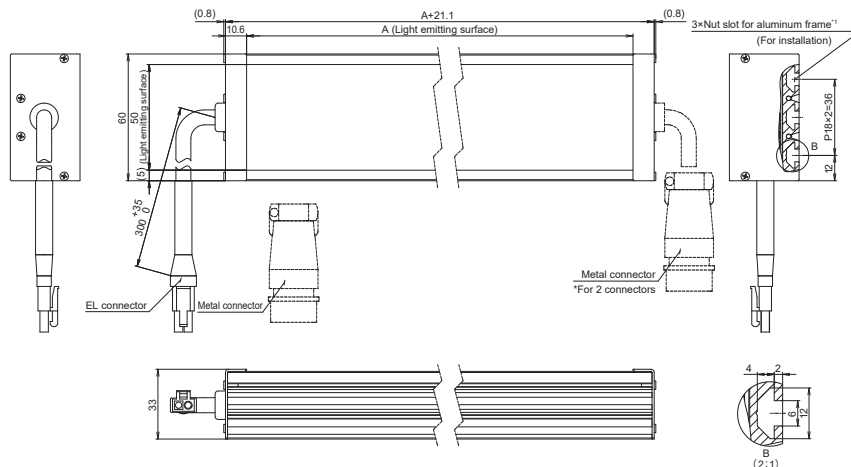


► Dimensions (mm)

Emitting Width 50 mm Standard Type (for all wavelengths) / High Power Type

LB-H-nX50SW (n=200 to 2700)

LB-nX50□□ (n=200 to 2700, □□=RD, SW, BL, IR86)



LB-H-nX50SW

n Dimensions	Connector Type
200 to 1,000	EL connector
1,100 to 2,100	Metal connector
2,200 to 2,700	Metal connector×2*

LB-nX50RD/SW/BL

n Dimensions	Connector Type
200 to 1,600	EL connector
1,700 to 2,700	Metal connector

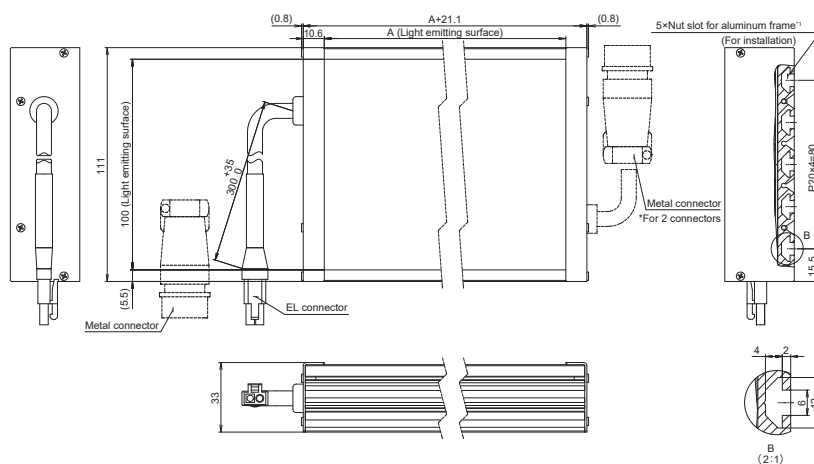
LB-nX50IR86

n Dimensions	Connector Type
200 to 2,700	EL connector

*1 Nuts can be installed by using post-installation nuts or by removing the side panels.

Emitting Width 100 mm Standard Type (for all wavelengths)

LB-nX100□□ (n=200 to 2700, □□=RD, SW, BL, IR86)



LB-nX100RD/SW/BL

n Dimensions	Connector Type
200 to 800	EL connector
900 to 1,600	Metal connector
1,700 to 2,700	Metal connector×2*

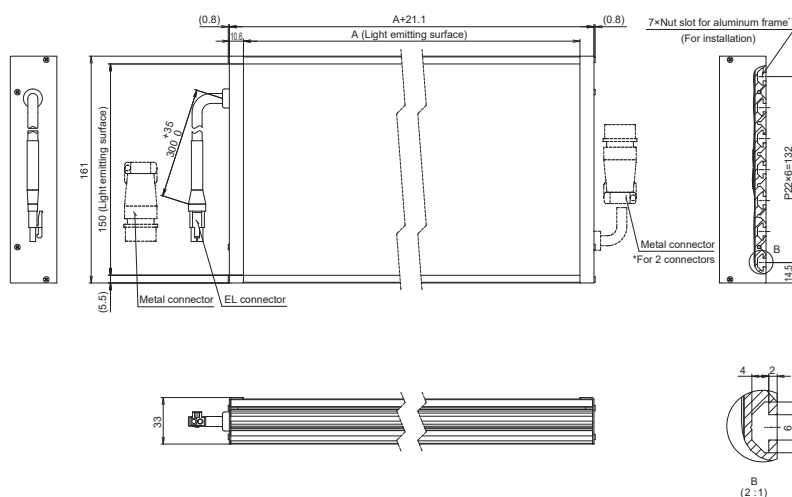
LB-nX100IR86

n Dimensions	Connector Type
200 to 1,500	EL connector
1,600 to 2,700	Metal connector

*1 Nuts can be installed by using post-installation nuts or by removing the side panels.

Emitting Width 150 mm Standard Type (for all wavelengths)

LB-nX150□□ (n=200 to 2700, □□=RD, SW, BL, IR86)



LB-nX150RD/SW/BL

n Dimensions	Connector Type
200 to 500	EL connector
600 to 1,100	Metal connector
1,200 to 2,700	Metal connector×2*

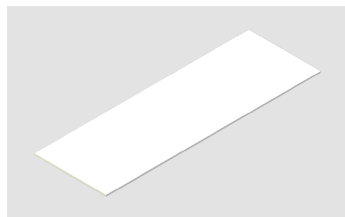
LB-nX150IR86

n Dimensions	Connector Type
200 to 1,000	EL connector
1,100 to 2,000	Metal connector
2,100 to 2,700	Metal connector×2*

*1 Nuts can be installed by using post-installation nuts or by removing the side panels.

Options

Diffusion Plates



Light characteristics can be changed by changing the diffusion plate.

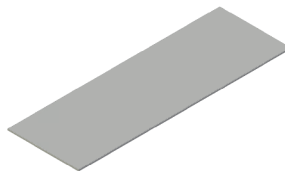
The DF-LB Series diffusion plates have lower uniformity and higher transmissivity than the standard type diffusion plates installed at the time of shipment.

Model Name (n=200 to 2700)	Applicable Light Unit (Common for all colors)
DF-LB-nX50	LB-nX50 Series
DF-LB-nX100	LB-nX100 Series
DF-LB-nX150	LB-nX150 Series

*For high power type lighting, DF-LB Series diffusion plates are installed at the time of shipment.

► P.353

Polarizing Plates



These are used together with a polarizing filter attached to the camera lens to eliminate surface glare.

Model Name (n=200 to 2700)	Applicable Light Unit (Excluding infrared)
PL-LB-nX50-HO*	LB-H-nX50 Series LB-nX50 Series
PL-LB-nX50-VE*	
PL-LB-nX100-HO*	LB-nX100 Series
PL-LB-nX100-VE*	
PL-LB-nX150-HO*	LB-nX150 Series
PL-LB-nX150-VE*	

* HO: Light is polarized parallel to the longer edge of the plate.

VE: Light is polarized parallel to the shorter edge of the plate.

* Remove the diffusion plate to mount the polarizing plate. If you would like to use both the polarizing plate and diffusion plate, please contact us for custom orders.

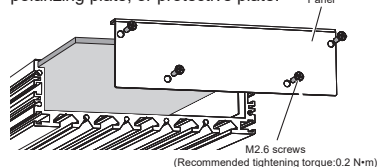
* When $n \geq 700$ for the PL-LB-HO Series or $n \geq 1000$ for the PL-LB-VE Series, the film on the polarizing plate has seams. For detailed information, please visit our website.

► P.355

Installation Method

Diffusion Plates Polarizing Plates Protective Plates

Loosen the M2.6 screws and remove the panel, and then replace the diffusion plate, polarizing plate, or protective plate.



- For light units that have one light cable, remove the panel on the side without the light cable.
- For light units that have two light cables, remove either one of the panels and replace the plate, being careful not to apply excessive force to the wires connected to the internal board.

Protective plate

Protects the emitting part of the light unit. It is not intended to protect against dust or water.

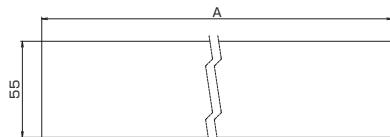
Model Name	Applicable Light Unit (Common for all colors)	Size A
PR-LB-200X50	LB-200X50/LB-H200X50	214
PR-LB-300X50	LB-300X50/LB-H300X50	314
PR-LB-400X50	LB-400X50/LB-H400X50	414
PR-LB-500X50	LB-500X50/LB-H500X50	514
PR-LB-600X50	LB-600X50/LB-H600X50	614
PR-LB-700X50	LB-700X50/LB-H700X50	714
PR-LB-800X50	LB-800X50/LB-H800X50	814
PR-LB-900X50	LB-900X50/LB-H900X50	914
PR-LB-1000X50	LB-1000X50/LB-H1000X50	1014
PR-LB-1100X50	LB-1100X50/LB-H1100X50	1114
PR-LB-1200X50	LB-1200X50/LB-H1200X50	1214
PR-LB-1300X50	LB-1300X50/LB-H1300X50	1312
PR-LB-1400X50	LB-1400X50/LB-H1400X50	1412
PR-LB-1500X50	LB-1500X50/LB-H1500X50	1512
PR-LB-1600X50	LB-1600X50/LB-H1600X50	1612
PR-LB-1700X50	LB-1700X50/LB-H1700X50	1712
PR-LB-1800X50	LB-1800X50/LB-H1800X50	1812
PR-LB-1900X50	LB-1900X50/LB-H1900X50	1912
PR-LB-2000X50	LB-2000X50/LB-H2000X50	2012
PR-LB-2100X50	LB-2100X50/LB-H2100X50	2111
PR-LB-2200X50	LB-2200X50/LB-H2200X50	2211
PR-LB-2300X50	LB-2300X50/LB-H2300X50	2311
PR-LB-2400X50	LB-2400X50/LB-H2400X50	2411
PR-LB-2500X50	LB-2500X50/LB-H2500X50	2510.5
PR-LB-2600X50	LB-2600X50/LB-H2600X50	2610.5
PR-LB-2700X50	LB-2700X50/LB-H2700X50	2710.5

Model Name	Applicable Light Unit (Common for all colors)	Size A
PR-LB-200X100	LB-200X100	214
PR-LB-300X100	LB-300X100	314
PR-LB-400X100	LB-400X100	414
PR-LB-500X100	LB-500X100	514
PR-LB-600X100	LB-600X100	614
PR-LB-700X100	LB-700X100	714
PR-LB-800X100	LB-800X100	814
PR-LB-900X100	LB-900X100	914
PR-LB-1000X100	LB-1000X100	1014
PR-LB-1100X100	LB-1100X100	1114
PR-LB-1200X100	LB-1200X100	1214
PR-LB-1300X100	LB-1300X100	1312
PR-LB-1400X100	LB-1400X100	1412
PR-LB-1500X100	LB-1500X100	1512
PR-LB-1600X100	LB-1600X100	1612
PR-LB-1700X100	LB-1700X100	1712
PR-LB-1800X100	LB-1800X100	1812
PR-LB-1900X100	LB-1900X100	1912
PR-LB-2000X100	LB-2000X100	2012
PR-LB-2100X100	LB-2100X100	2111
PR-LB-2200X100	LB-2200X100	2211
PR-LB-2300X100	LB-2300X100	2311
PR-LB-2400X100	LB-2400X100	2411
PR-LB-2500X100	LB-2500X100	2510.5
PR-LB-2600X100	LB-2600X100	2610.5
PR-LB-2700X100	LB-2700X100	2710.5

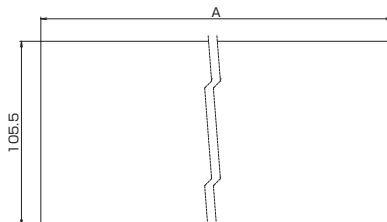
Model Name	Applicable Light Unit (Common for all colors)	Size A
PR-LB-200X150	LB-200X150	214
PR-LB-300X150	LB-300X150	314
PR-LB-400X150	LB-400X150	414
PR-LB-500X150	LB-500X150	514
PR-LB-600X150	LB-600X150	614
PR-LB-700X150	LB-700X150	714
PR-LB-800X150	LB-800X150	814
PR-LB-900X150	LB-900X150	914
PR-LB-1000X150	LB-1000X150	1014
PR-LB-1100X150	LB-1100X150	1114
PR-LB-1200X150	LB-1200X150	1214
PR-LB-1300X150	LB-1300X150	1312
PR-LB-1400X150	LB-1400X150	1412
PR-LB-1500X150	LB-1500X150	1512
PR-LB-1600X150	LB-1600X150	1612
PR-LB-1700X150	LB-1700X150	1712
PR-LB-1800X150	LB-1800X150	1812
PR-LB-1900X150	LB-1900X150	1912
PR-LB-2000X150	LB-2000X150	2012
PR-LB-2100X150	LB-2100X150	2111
PR-LB-2200X150	LB-2200X150	2211
PR-LB-2300X150	LB-2300X150	2311
PR-LB-2400X150	LB-2400X150	2411
PR-LB-2500X150	LB-2500X150	2510.5
PR-LB-2600X150	LB-2600X150	2610.5
PR-LB-2700X150	LB-2700X150	2710.5

Dimensions (mm)

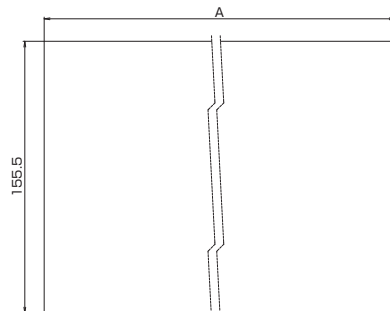
PR-LB-nX50(n=200 to 2700)



PR-LB-nX100(n=200 to 2700)



PR-LB-nX150(n=200 to 2700)



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