

LED color	Red (RD)	White (SW)	Blue (BL)	Green (GR)		
Input voltage		24 V	max.			
Peak wavelength (typ.)	635 nm		470 nm	525 nm		
Relative color temperature (typ.)		6,600 K				
Cable length		0.3	3 m			
Input connector		SMR-	03V-B			
Polarity, signal	1	: Anode (+) brown, 2:	NC, 3: Cathode (-) bl	ue		
Case material	Aluminum alloy					
Operating temperature and humidity	Temperature: 0 to 40°C, Humidity: 20% to 85% (with no condensation)					
Storage temperature and humidity	Temperature: -20 to 60°C, Humidity: 20% to 85% (with no condensation)					
Cooling method		Natural a	ir cooling			
Spectral distribution	Relative irradiation strength (%) 000 00 000 000 000 000 000 000 000 00	Blue Green 480 530 580 Wavelengti		Use an R60-series sharp-cut filter. 730 780		

Note: The values for irradiation strength and service life given in this catalog are for reference purposes. These values are not ensured.

Precautions

•Carefully read the product's instruction manual before use to ensure correct operation.

•Product specifications and design are subject to change without notice.

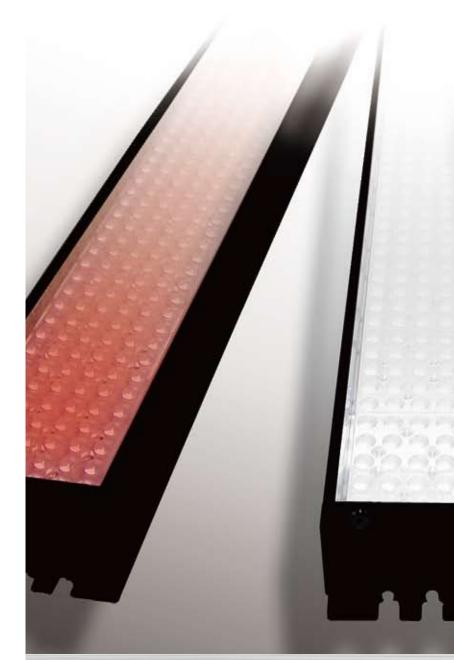
•Examples of workpiece imaging in this catalog are a guide that may be informative for choosing Light Units. Please check the functions of the equipment and requirements before choosing a Light Unit.



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New Generation LED Bar Light

New Bar Light Units with Direct Illumination

The New LDL2 Series

CCS Inc.

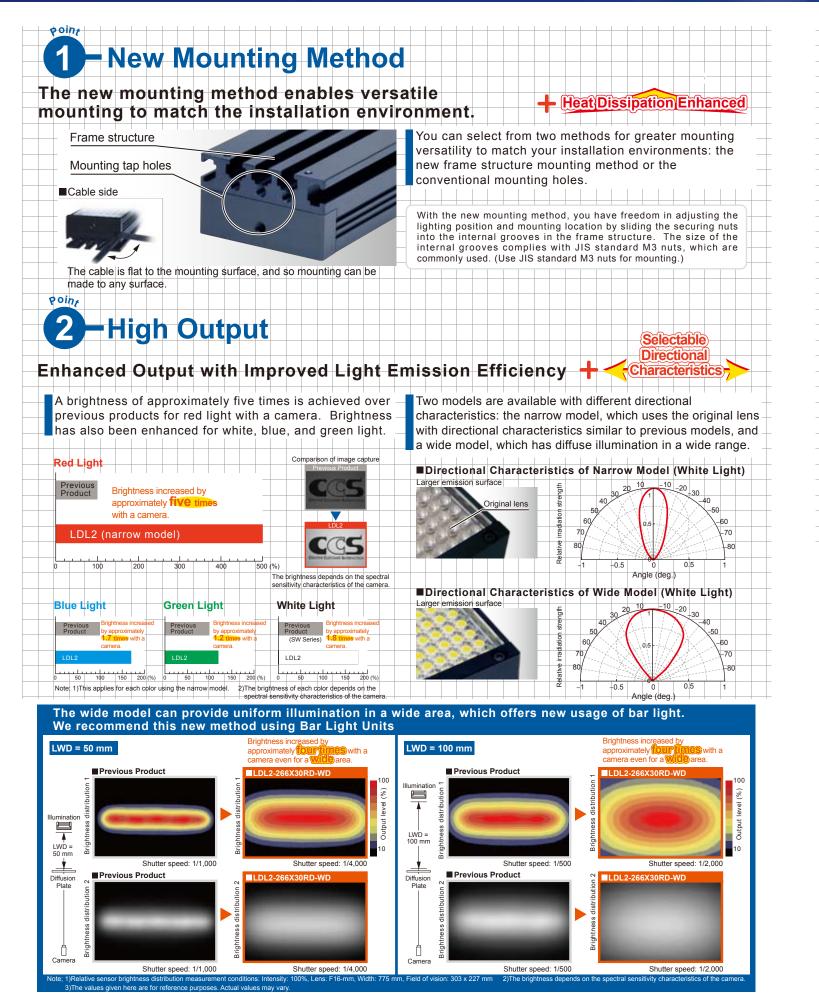


Patent Pending

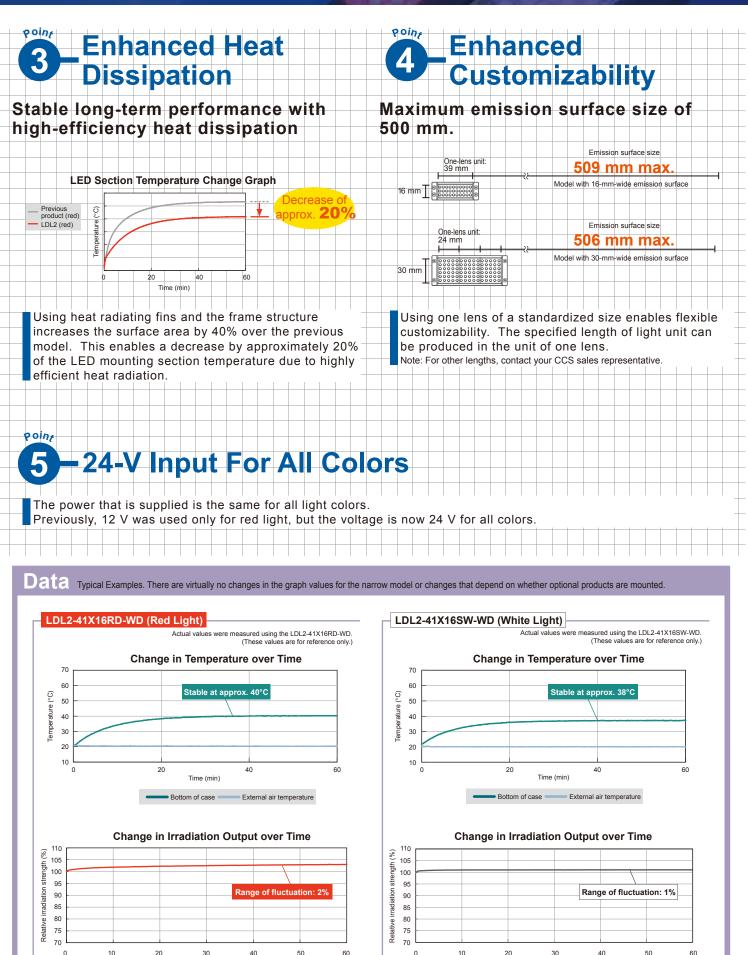
Full Model Change

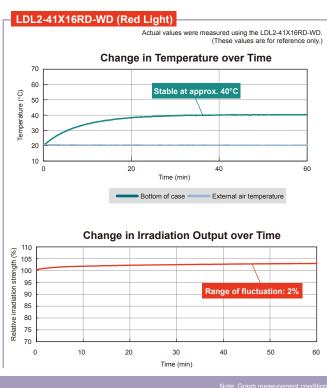


Full Model Change - Five New Points -



high-efficiency heat dissipation





30 Time (min

Options

Mounting

The Diffusion Plate and Polarizing Plate have been redesigned to use insertion fixing rather than the previous screw fixing method. Upgraded materials for the Diffusion Plate improve the rate of diffusion. Protective Plate is available protect the emission area of the Light Unit as well as bracketss for securing the Light Unit to enable flexible adjustment of the emission direction.

DF-LDL2 Series Plate PL-LDL2 Series CV-LDL2 Series Diffusion Plate





The irradiated light is diffused to limit workpiece glare and reflections.

light reflection by fixing a PL-series polarization filter to the lens.



•Insert the tabs into the side grooves.

For details, refer to the instruction manual

of the Light Unit.

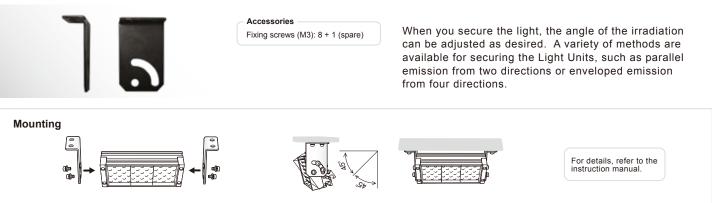
The plate protects the emission section

Note: The Protective Plate is not intended to provide protection against dust or water droplets.

8.4

•Use a flat-blade screwdriver or other tool with a narrow point to catch the tabs and remove the Plate

Light Fixing Brackets BK-LDL2 (for all models in Series)



•Adjust the emission angle and then firmly secure the Light Unit. •Install the bracketss on both ends of the Light Unit.



Specific	ations of S	pecial Opti	ions		Dimensional diagrams (mm)
Name	Diffusion Plate	Polarizing Plate	Protective Plate	Light Fixing Brackets	DF/PL/CV-LDL2 Series	
Model name	DF-LDL2-41X16	PL-LDL2-41X16(-VE)	CV-LDL2-41X16	BK-LDL2	16-mm-wide models 30-mm-wide	e m
(for both narrow model and wide model)	DF-LDL2-80X16	PL-LDL2-80X16(-VE)	CV-LDL2-80X16	(for all models in Series)	8.4	_
	DF-LDL2-119X16	PL-LDL2-119X16(-VE)	CV-LDL2-119X16			
	DF-LDL2-74X30	PL-LDL2-74X30(-VE)	CV-LDL2-74X30			F
	DF-LDL2-146X30	PL-LDL2-146X30(-VE)	CV-LDL2-146X30			
	DF-LDL2-218X30	PL-LDL2-218X30(-VE)	CV-LDL2-218X30			
	DF-LDL2-266X30	PL-LDL2-266X30(-VE)	CV-LDL2-266X30			-
Heat resistance	80°C	60°C	80°C	—		
Two types of Polarizing Plate are available. Use combinations for the following cases. Mounting with Emission from Four Directions Example Differentiating Paired Polarizing Plates					BK-LDL2 (Bilaterally Symmetric)	



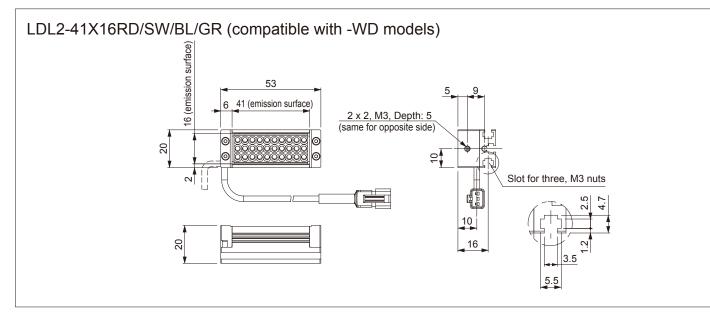
The standard lineup now includes models with a length of 200 mm or more as well as models with an emission surface of 30 mm. The lineup includes combination of over 50 models with light colors in red, white, blue, and green, various sizes, and narrow models or wide models.

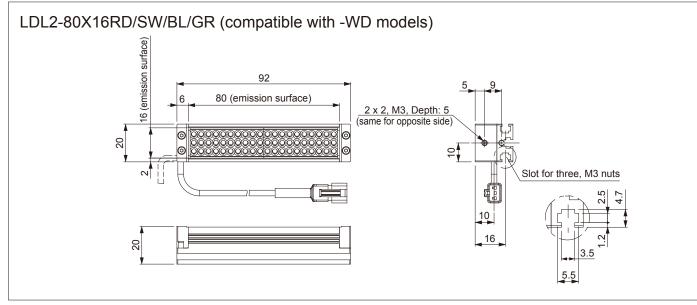
	Direct number	Model	LED color	Emission surface size	Input voltage	Power consumption	Weight	Supported	d options
Ū	R 1003702	LDL2-41X16RD	Red			consumption		Diffusion Plate	DF-LDL2-41X1
Narrow model	1003705	LDL2-41X16SW	White					Polarizing Plate	PL-LDL2-41X1 (PL-LDL2-41X16-V
M	1003704	LDL2-41X16BL	Blue	41x16 mm	24 V	1.9 W	50 g	Protective Plate	(PL-LDL2-41X16-V CV-LDL2-41X1
larro	1003703							Light Fixing Brackets	BK-LDL2
		LDL2-41X16GR	Green Red						
Wide model	1003706	LDL2-41X16RD-WD						Diffusion Plate	DF-LDL2-41X1
	2 1003709	LDL2-41X16SW-WD	White	41x16 mm	24 V	1.9 W	50 g	Polarizing Plate	PL-LDL2-41X1 (PL-LDL2-41X16-)
row model Wider	1003708	LDL2-41X16BL-WD	Blue					Protective Plate	CV-LDL2-41X
	1000707	LDL2-41X16GR-WD	Green					Light Fixing Brackets	BK-LDL2
	1003710	LDL2-80X16RD	Red	80x16 mm				Diffusion Plate	DF-LDL2-80X
	1003713	LDL2-80X16SW	White		24 V	3.8 W	75 g	Polarizing Plate	PL-LDL2-80X (PL-LDL2-80X16-)
Narrow model	1003712	LDL2-80X16BL	Blue				- 5	Protective Plate	CV-LDL2-80X
model Wide model Nar	1003711	LDL2-80X16GR	Green					Light Fixing Brackets	BK-LDL2
	1003714	LDL2-80X16RD-WD	Red					Diffusion Plate	DF-LDL2-80X
model	1003717	LDL2-80X16SW-WD	White	80x16 mm	24 V	3.8 W	75 g	Polarizing Plate	PL-LDL2-80X (PL-LDL2-80X16-
Wide	1003716	LDL2-80X16BL-WD	Blue	8021011111	24 V	3.0 VV	75 g	Protective Plate	CV-LDL2-80X
3	1003715	LDL2-80X16GR-WD	Green					Light Fixing Brackets	BK-LDL2
a la	<u>9</u> 1003718	LDL2-119X16RD	Red					Diffusion Plate	DF-LDL2-119X
Narrow model	1003721	LDL2-119X16SW	White					Polarizing Plate	PL-LDL2-119X (PL-LDL2-119X16-
MO	5 1003720	LDL2-119X16BL	Blue	119x16 mm	24 V	5.7 W	95 g	Protective Plate	CV-LDL2-119X
	1003719	LDL2-119X16GR	Green					Light Fixing Brackets	BK-LDL2
		LDL2-119X16RD-WD	Red		24 V			Diffusion Plate	DF-LDL2-119X
Wide model	1003725	LDL2-119X16SW-WD	White					Polarizing Plate	PL-LDL2-119X
e L	1003724	LDL2-119X16BL-WD	Blue	119x16 mm		5.7 W	95 g	Protective Plate	(PL-LDL2-119X16- CV-LDL2-119X
Mid	1003723	LDL2-119X16GR-WD	Green					Light Fixing Brackets	BK-LDL2
	1000120	LDL2-74X30RD	Red	74x30 mm	24 V 5.		100 g	Diffusion Plate	
Narrow model	1003720							Polarizing Plate	DF-LDL2-74X PL-LDL2-74X
	1003729	LDL2-74X30SW	White			5.7 W		-	(PL-LDL2-74X30-
arro	1003728	LDL2-74X30BL	Blue					Protective Plate	CV-LDL2-74X
Z		LDL2-74X30GR	Green					Light Fixing Brackets	BK-LDL2
	1003730	LDL2-74X30RD-WD	Red					Diffusion Plate	DF-LDL2-74X
	1003733	LDL2-74X30SW-WD	White	74x30 mm	24 V	5.7 W	100 g	Polarizing Plate	PL-LDL2-74X (PL-LDL2-74X30-
Wide model	1003732	LDL2-74X30BL-WD	Blue					Protective Plate	CV-LDL2-74X
		LDL2-74X30GR-WD	Green					Light Fixing Brackets	BK-LDL2
labom wo	1003734	LDL2-146X30RD	Red			12 W	170 g	Diffusion Plate	DF-LDL2-146>
	1003737	LDL2-146X30SW	White	146x30 mm	24 V			Polarizing Plate	PL-LDL2-146X (PL-LDL2-146X30
	-	LDL2-146X30BL	Blue	140,000 11111				Protective Plate	CV-LDL2-146>
Nar	1003735	LDL2-146X30GR	Green					Light Fixing Brackets	BK-LDL2
	1003738	LDL2-146X30RD-WD	Red					Diffusion Plate	DF-LDL2-146>
Wide model	1003741	LDL2-146X30SW-WD	White	140.00	24 V	12 W	170 g	Polarizing Plate	PL-LDL2-146X (PL-LDL2-146X30
a de la	1003740	LDL2-146X30BL-WD	Blue	146x30 mm				Protective Plate	CV-LDL2-146X
Nic	1003739	LDL2-146X30GR-WD	Green					Light Fixing Brackets	BK-LDL2
a la	y 1003742	LDL2-218X30RD	Red					Diffusion Plate	DF-LDL2-218>
model Narrow model Wide model	1003745	LDL2-218X30SW	White			18 W	240 g	Polarizing Plate	PL-LDL2-218X
NO	1003744	LDL2-218X30BL	Blue	218x30 mm	24 V			Protective Plate	CV-LDL2-218X30
Narrow	1003743	LDL2-218X30GR	Green					Light Fixing Brackets	BK-LDL2
		LDL2-218X30RD-WD	Red				240 g	Diffusion Plate	DF-LDL2-218>
model	1003749	LDL2-218X30SW-WD	White					Polarizing Plate	PL-LDL2-218X
	1003748	LDL2-218X30BL-WD	Blue	218x30 mm	24 V	18 W		Protective Plate	(PL-LDL2-218X30) CV-LDL2-218X
Wide	1003748	LDL2-218X30GR-WD	Green					Light Fixing Brackets	BK-LDL2
		LDL2-216X30GR-WD						Diffusion Plate	
Narrow model	1003750		Red						DF-LDL2-266> PL-LDL2-266>
M M	1003753	LDL2-266X30SW	White	266x30 mm	24 V	21 W	280 g	Polarizing Plate	PL-LDL2-266X
ULL		LDL2-266X30BL	Blue					Protective Plate	CV-LDL2-266>
		LDL2-266X30GR	Green					Light Fixing Brackets	BK-LDL2
a de la	1003754	LDL2-266X30RD-WD	Red					Diffusion Plate	DF-LDL2-266X
Wide model	1003757	LDL2-266X30SW-WD	White	266x30 mm	24 V	21 W	280 g	Polarizing Plate	PL-LDL2-266X (PL-LDL2-266X30-
e pi	1003756	LDL2-266X30BL-WD	Blue			21 00	9	Protective Plate	CV-LDL2-266X
2	\$ 1003755	LDL2-266X30GR-WD	Green					Light fixing Brackets	BK-LDL2

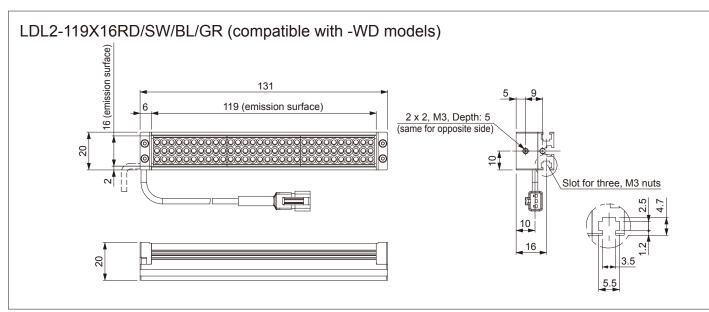
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Dimensional diagrams (mm)

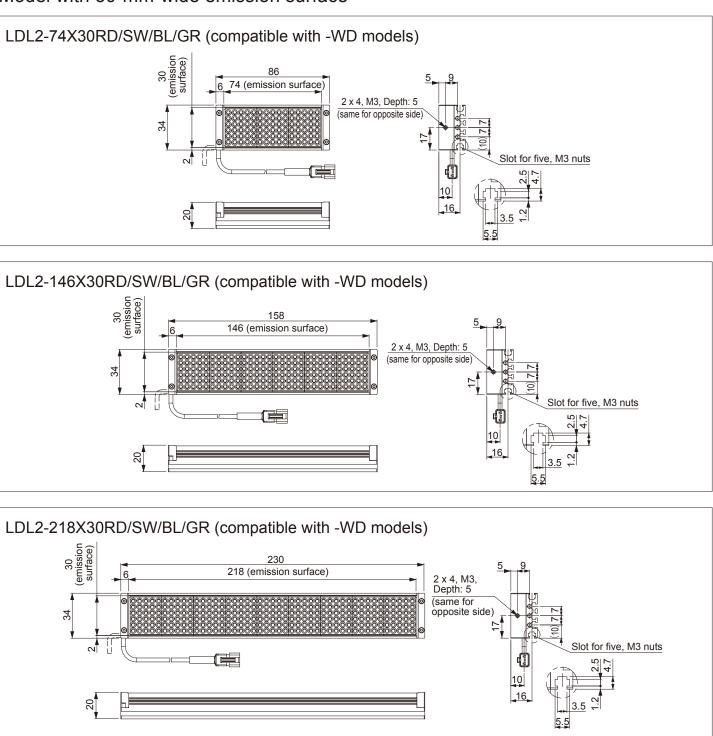
Model with 16-mm-wide emission surface

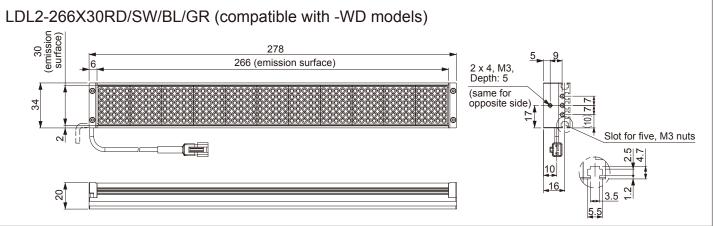




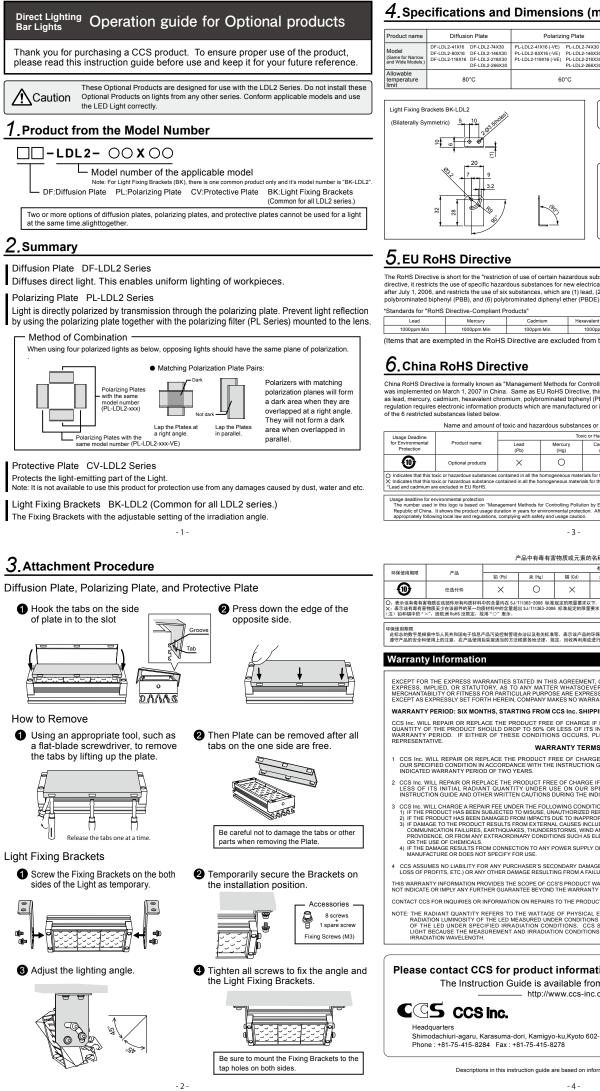


Model with 30-mm-wide emission surface



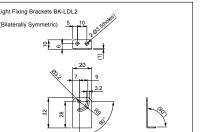


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m 4 , Specifications and Dimensions (mm)

Product name	Diffusion Plate		Polarizing Plate		Protecti	Light Fixing Brackets	
Model (Same for Narrow and Wide Models.)	DF-LDL2-80X16 DF-LDL2-119X16 DF-LDL2-119X176 DF-LDL2-119X16 DF-LDL	DF-LDL2-74X30 DF-LDL2-146X30 DF-LDL2-218X30 DF-LDL2-266X30		PL-LDL2-74X30 (-VE) PL-LDL2-146X30 (-VE) PL-LDL2-218X30 (-VE) PL-LDL2-266X30 (-VE)	CV-LDL2-41X16 CV-LDL2-80X16 CV-LDL2-119X16	CV-LDL2-74X30 CV-LDL2-146X30 CV-LDL2-218X30 CV-LDL2-266X30	BK-LDL2 (Common for all LDL2 series.)
Allowable temperature limit	80°C		60°C		80		



Polarizing plates are wear and tear items. Replace them periodically. If the polarizing plates are discolored or deformed upon inspection, replace them with brand new polarizing plates. It is recommended that you keep some extra polarizing plates.

Refer to the dimensions of the Light for the dimensions of the Diffusion Plate, Polarizing Plate and Protective Plate.

The RoHS Directive is short for the "restriction of use of certain hazardous substances in electrical and electronic equipment." As a directive, it restricts the use of specific hazardous substances for new electrical and electronic equipment marketed in the EU on or after July 1, 2006, and restricts the use of six substances, which are (1) lead, (2) mercury, (3) cadmium, (4) hexavalent chromium, (5) polybrominated biphenyl (PBB), and (6) polybrominated diphenyl ether (PBDE).

	Lead	Mercury	Cadmium	Hexavalent chromium	PBB	PBDE	
	1000ppm Min	1000ppm Min	100ppm Min	1000ppm Min	1000ppm Min	1000ppm Min	
(Items that are exampled in the BeHS Directive are evaluated from these standards.)							

China RoHS Directive is formally known as "Management Methods for Controlling Pollution by Electronic Information Products", which was implemented on March 1, 2007 in China. Same as EU RoHS Directive, this regulation restricts the usage of six substances such as lead, mercury, cadmium, hexavalent chromium, polybrominated biphenyl (PBB), and polybrominated diphenyl ether (PBDE). This regulation requires electronic information products which are manufactured or imported, and sold in China, to clearly disclose contents

	Name and amount of	of toxic and haz	ardous substan	ces or elements	s, which product	s contain		
Usage Deadline	Product name	Toxic or Hazardous Substances and Elements						
for Environmental Protection		Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	PBB	PBDE	
1	Optional products	×	0	×	0	0	0	
C Indicates that this toxic or hazardous substances contained in all the homogeneous materials for this part, according to SJ/T11363-2006 is within the limit requirement, X. Indicates that this toxic or hazardous substance contained in all the homogeneous materials for this part, according to SJ/T11363-2006, is over the limit requirement. "Lead and acdiminum are excluded in EU RoHS.								

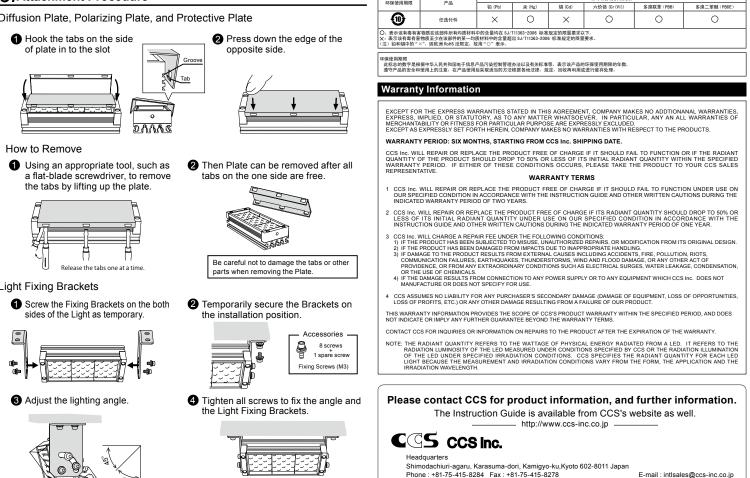
ent Methods for Controlling Pollution by Electronic Information Products' and related regulations from People' in years for environmental protection. After finishing a product usage, the product need to be re-used or discar hybrig with safety and usage caution.

- 3 -

有毒有害物质或元素

多溴联苯 (F

产品中有毒有害物质或元素的名称及含量



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