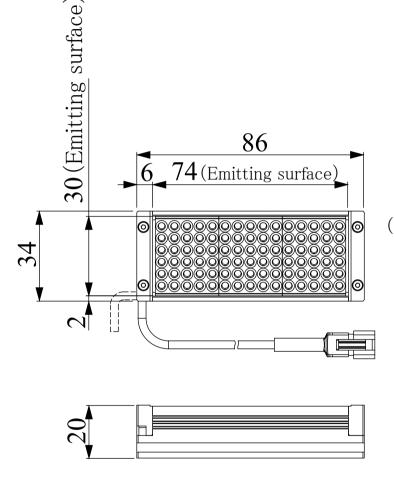
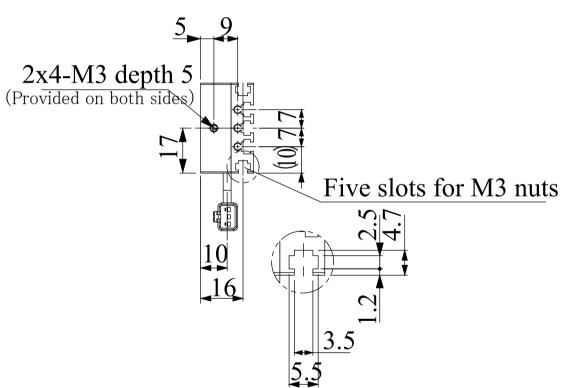
LDL2-74X30GR-WD

Model name	LDL2-74X30GR-WD
LED color	Green
Input voltage	DC24V
Power consumption	5.7W
Weight	100g
Connector	SMR-03V-B
Polarity and signal	1:(+), 2:NC, 3:(-)

Third Angle Projection Units: mm





Common Specifications				
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: I	NC, 3: Cathode (-) blu	ıe
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 air cooling			
Spectral distribution	80 100 White Blue Green Red R60-series sharp-cut filter. Use an R60-series sharp-cut filter. Wavelength (nm)			

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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Descriptions in this catalog are based on information available as of October 2009. 02002-00-0910-LDL2





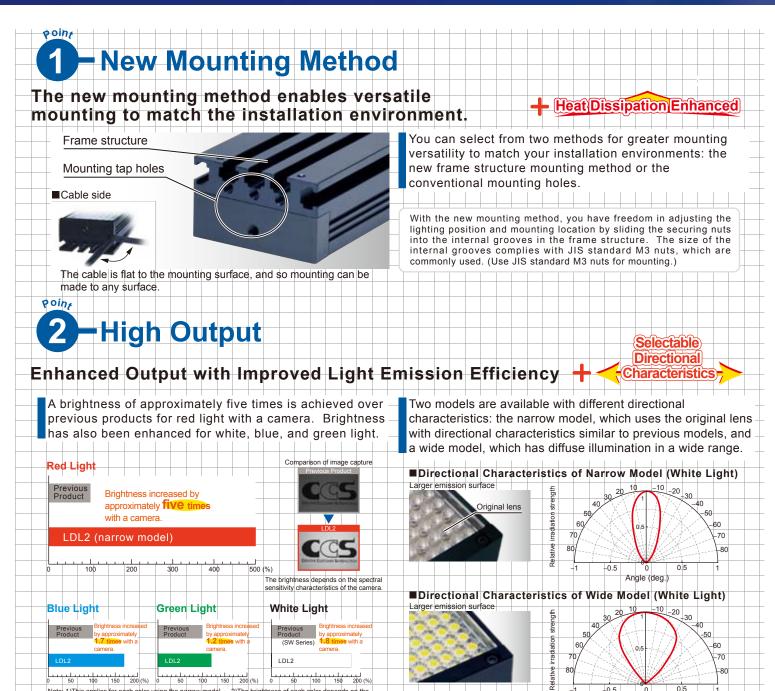


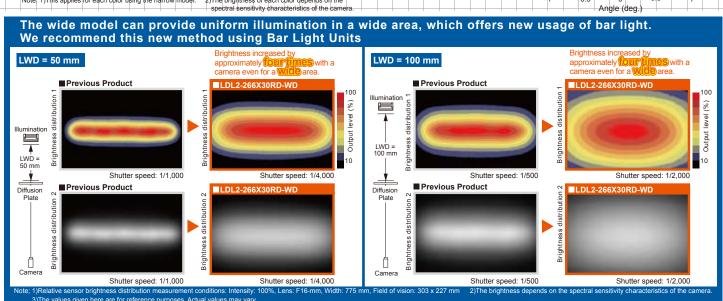
New Bar Light Units with Direct Illumination

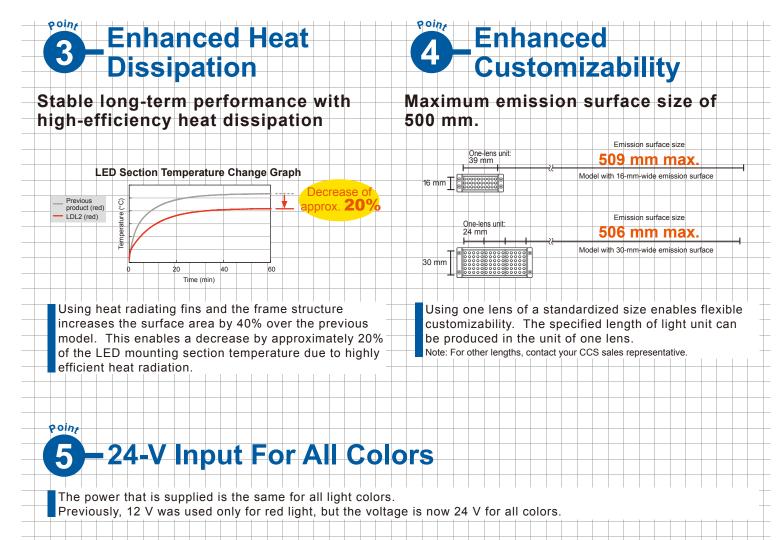
The New LDL2 Series

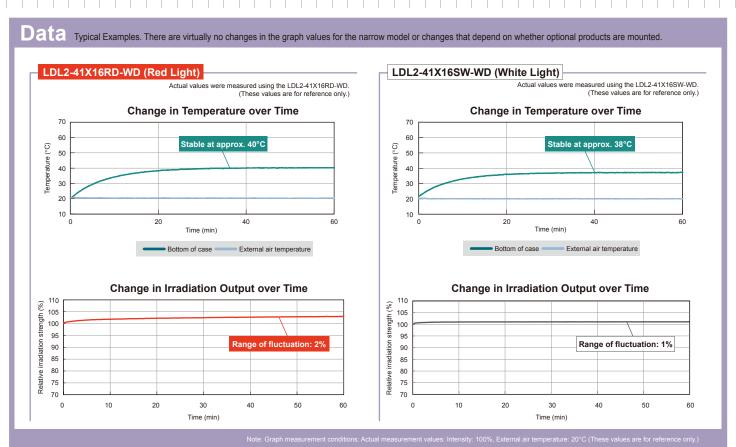
CCS Inc.

Full Model Change - Five New Points -









1

Options

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.



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

DF-LDL2 Series Plate Plate PL-LDL2 Series Protective CV-LDL2 Series





The light is polarized. You can prevent light reflection by fixing a PL-series polarization filter to the lens.

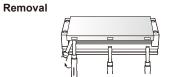


The plate protects the emission section of the Light Unit.

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

Mounting

•Insert the tabs into the side grooves.



For details, refer to the

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

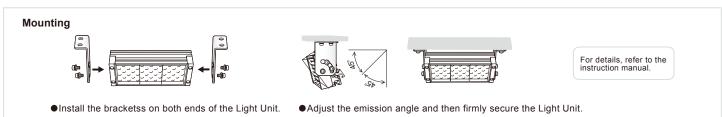
BK-LDL2 (for all models in Series)



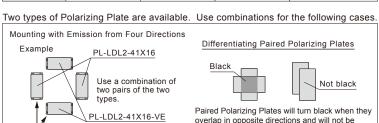
The polarization direction differs by 90°.

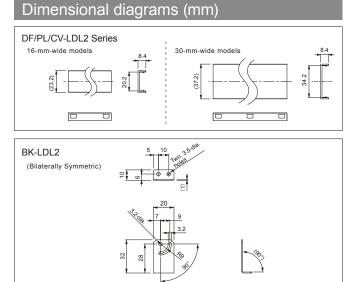
Fixing screws (M3): 8 + 1 (spare)

When you secure the light, the angle of the irradiation can be adjusted as desired. A variety of methods are available for securing the Light Units, such as parallel emission from two directions or enveloped emission from four directions.



Specifications of Special Options						
Name	Diffusion Plate	Polarizing Plate	Protective Plate	Light Fixing Brackets		
Model name	DF-LDL2-41X16	PL-LDL2-41X16(-VE)	CV-LDL2-41X16	BK-LDL2		
(for both narrow model and wide model)	DF-LDL2-80X16	PL-LDL2-80X16(-VE)	CV-LDL2-80X16	(for all models in Series)		
	DF-LDL2-119X16	PL-LDL2-119X16(-VE)	CV-LDL2-119X16			
	DF-LDL2-74X30	PL-LDL2-74X30(-VE)	CV-LDL2-74X30			
	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	_		





Product Lineup

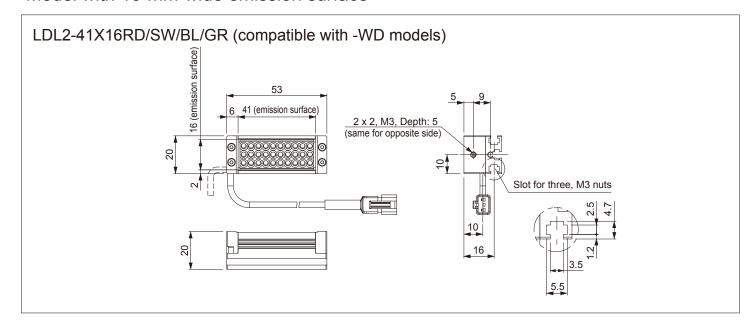
The standard lineup now includes models with a length of 200 mm or more as well as models with an emission surface of 30 mm. The lineup includes combination of over 50 models with light colors in red, white, blue, and green, various sizes, and narrow models or wide models.

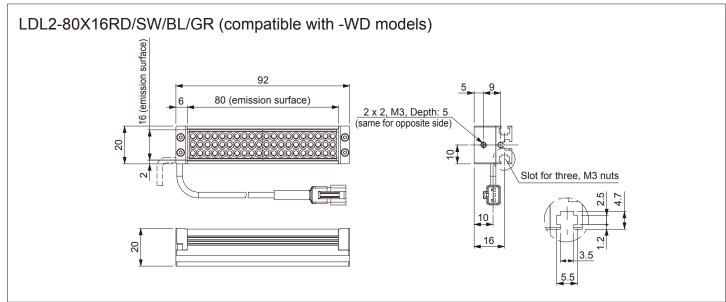
		Direct number	Model	LED color	Emission surface size	Input voltage	Power consumption	Weight	Supported	options
	lapo	1003702	LDL2-41X16RD	Red					Diffusion Plate	DF-LDL2-41X16
	Narrow model	1003705	LDL2-41X16SW	White	44.40	04.1/	4.0.14	F0 ~	Polarizing Plate	PL-LDL2-41X16 (PL-LDL2-41X16-VE)
	row	1003704	LDL2-41X16BL	Blue	41x16 mm	24 V	24 V 1.9 W	50 g	Protective Plate	CV-LDL2-41X16
	Nar	1003703	LDL2-41X16GR	Green					Light Fixing Brackets	BK-LDL2
	<u>_</u>	1003706	LDL2-41X16RD-WD	Red					Diffusion Plate	DF-LDL2-41X16
	Wide model	1003709	LDL2-41X16SW-WD	White					Polarizing Plate	PL-LDL2-41X16 (PL-LDL2-41X16-VE)
ace	de r	1003708	LDL2-41X16BL-WD	Blue	41x16 mm	24 V	1.9 W	50 g	Protective Plate	CV-LDL2-41X16
surface	Š	1003707	LDL2-41X16GR-WD	Green					Light Fixing Brackets	BK-LDL2
	Je J	1003710	LDL2-80X16RD	Red					Diffusion Plate	DF-LDL2-80X16
SSic	mod	1003713	LDL2-80X16SW	White					Polarizing Plate	PL-LDL2-80X16 (PL-LDL2-80X16-VE)
emi	WO.	1003712	LDL2-80X16BL	Blue	80x16 mm	24 V	3.8 W	75 g	Protective Plate	CV-LDL2-80X16
with 16-mm-wide emission	Narrow model	1003711	LDL2-80X16GR	Green					Light Fixing Brackets	BK-LDL2
×-		1003714	LDL2-80X16RD-WD	Red					Diffusion Plate	DF-LDL2-80X16
E	model	1003717	LDL2-80X16SW-WD	White					Polarizing Plate	PL-LDL2-80X16
-91	e m	1003717	LDL2-80X16BL-WD	Blue	80x16 mm	24 V	3.8 W	75 g	Protective Plate	(PL-LDL2-80X16-VE) CV-LDL2-80X16
ij	Wide	1003715	LDL2-80X16GR-WD	Green					Light Fixing Brackets	BK-LDL2
		1003713	LDL2-119X16RD	Red					Diffusion Plate	DF-LDL2-119X16
Model	nod	1003718	LDL2-119X16SW	White					Polarizing Plate	PL-LDL2-119X16
≥	×				119x16 mm	24 V	5.7 W	95 g		(PL-LDL2-119X16-VE)
	Narrow model	1003720	LDL2-119X16BL	Blue					Protective Plate	CV-LDL2-119X16
		1003719	LDL2-119X16GR	Green					Light Fixing Brackets	BK-LDL2
	Wide model	1003722	LDL2-119X16RD-WD	Red		16 mm 24 V		' W 95 g	Diffusion Plate	DF-LDL2-119X16 PL-LDL2-119X16
	E E	1003725	LDL2-119X16SW-WD	White	119x16 mm		5.7 W		Polarizing Plate	(PL-LDL2-119X16-VE)
	Vide	1003724	LDL2-119X16BL-WD	Blue					Protective Plate	CV-LDL2-119X16
		1003723	LDL2-119X16GR-WD	Green					Light Fixing Brackets	BK-LDL2
	Narrow model	1003726	LDL2-74X30RD	Red			5.7 W	100 g	Diffusion Plate	DF-LDL2-74X30 PL-LDL2-74X30
	× ⊢	1003729	LDL2-74X30SW	White	74x30 mm	24 V			Polarizing Plate	(PL-LDL2-74X30-VE)
	arro	1003728	LDL2-74X30BL	Blue					Protective Plate	CV-LDL2-74X30
	ž	1003727	LDL2-74X30GR	Green					Light Fixing Brackets	BK-LDL2
	de	1003730	LDL2-74X30RD-WD	Red			5.7 W	5.7 W 100 g	Diffusion Plate	DF-LDL2-74X30
	l om	1003733	LDL2-74X30SW-WD	White	74x30 mm	24 V			Polarizing Plate	PL-LDL2-74X30 (PL-LDL2-74X30-VE)
	Wide model	1003732	LDL2-74X30BL-WD	Blue					Protective Plate	CV-LDL2-74X30
		1003731	LDL2-74X30GR-WD	Green					Light Fixing Brackets	BK-LDL2
	odel	1003734	LDL2-146X30RD	Red					Diffusion Plate	DF-LDL2-146X30
4	E /	1003737	LDL2-146X30SW	White	146x30 mm	24 V	24 V 12 W	2 W 170 g	Polarizing Plate	PL-LDL2-146X30 (PL-LDL2-146X30-VE)
rface	arrow model	1003736	LDL2-146X30BL	Blue	140230 11111	24 V	12 00	1709	Protective Plate	CV-LDL2-146X30
sur	Na	1003735	LDL2-146X30GR	Green					Light Fixing Brackets	BK-LDL2
	<u>e</u>	1003738	LDL2-146X30RD-WD	Red					Diffusion Plate	DF-LDL2-146X30
SS	Wide model	1003741	LDL2-146X30SW-WD	White	146,20	24.1/	10.14	170 a	Polarizing Plate	PL-LDL2-146X30 (PL-LDL2-146X30-VE)
em	de r	1003740	LDL2-146X30BL-WD	Blue	146x30 mm	24 V	IZ VV	12 W 170 g	Protective Plate	CV-LDL2-146X30
ide	⋛	1003739	LDL2-146X30GR-WD	Green					Light Fixing Brackets	BK-LDL2
with 30-mm-wide emission	del	1003742	LDL2-218X30RD	Red					Diffusion Plate	DF-LDL2-218X30
Ë	Narrow model	1003745	LDL2-218X30SW	White	040.00	0.434	40.144		Polarizing Plate	PL-LDL2-218X30 (PL-LDL2-218X30-VE)
30	NO.	1003744	LDL2-218X30BL	Blue	218x30 mm	24 V	18 W	240 g	Protective Plate	CV-LDL2-218X30
vith	Nari	1003743	LDL2-218X30GR	Green					Light Fixing Brackets	BK-LDL2
<u>~</u>		1003746	LDL2-218X30RD-WD	Red					Diffusion Plate	DF-LDL2-218X30
Model	poc	1003749	LDL2-218X30SW-WD	White				0.40	Polarizing Plate	PL-LDL2-218X30 (PL-LDL2-218X30-VE)
2	Wide model	1003748	LDL2-218X30BL-WD	Blue	218x30 mm	24 V	18 W	240 g	Protective Plate	CV-LDL2-218X30
	×	1003747	LDL2-218X30GR-WD	Green					Light Fixing Brackets	BK-LDL2
	ē	1003750	LDL2-266X30RD	Red					Diffusion Plate	DF-LDL2-266X30
	moo	1003753	LDL2-266X30SW	White					Polarizing Plate	PL-LDL2-266X30 (PL-LDL2-266X30-VE)
	Narrow model	1003753	LDL2-266X30BL	Blue	266x30 mm	24 V	21 W	280 g	Protective Plate	(PL-LDL2-266X30-VE) CV-LDL2-266X30
	Jarre	1003752	LDL2-266X30GR						Light Fixing Brackets	BK-LDL2
		1003751	LDL2-266X30RD-WD	Green Red					Diffusion Plate	
	Wide model			White					Polarizing Plate	DF-LDL2-266X30 PL-LDL2-266X30
	E E	1003757	LDL2-266X30SW-WD		266x30 mm	24 V	21 W	280 g		PL-LDL2-266X30 (PL-LDL2-266X30-VE)
	Vide	1003756	LDL2-266X30BL-WD	Blue					Protective Plate	CV-LDL2-266X30
	>	1003755	LDL2-266X30GR-WD	Green	en				Light fixing Brackets	BK-LDL2

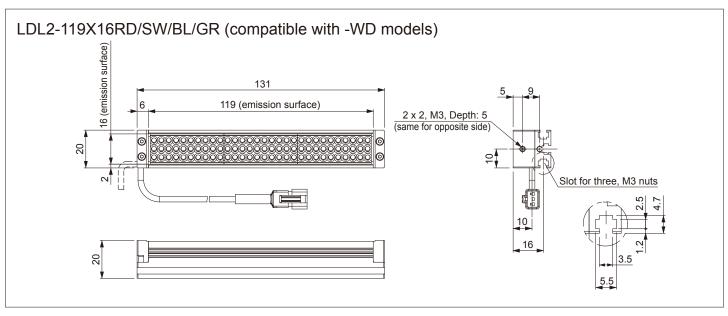
(3)

Dimensional diagrams (mm)

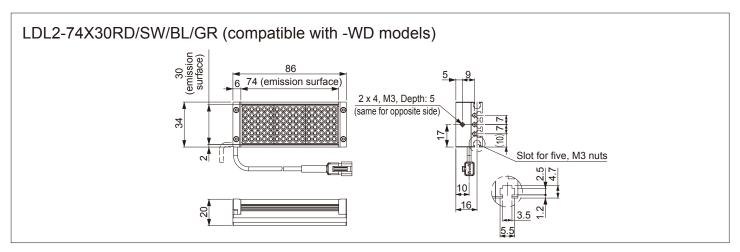
Model with 16-mm-wide emission surface

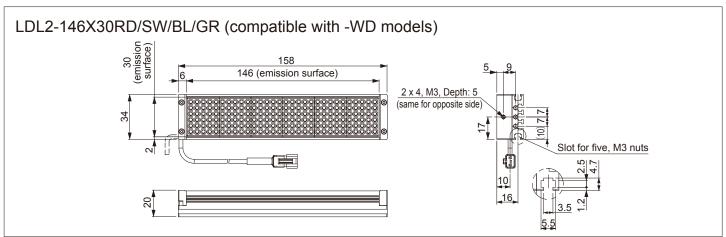


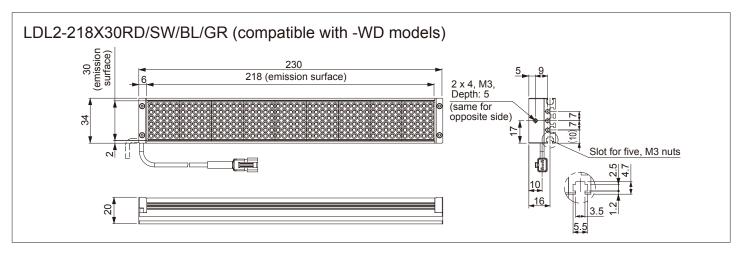


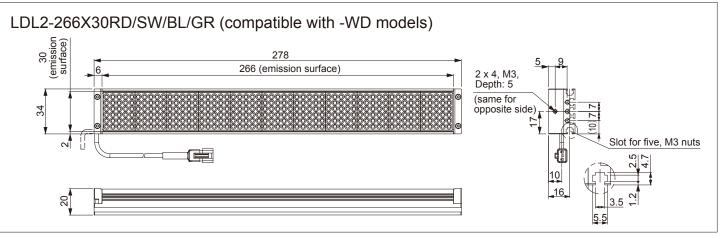


Model with 30-mm-wide emission surface









Direct Lighting LDL2 Series Instruction Guide (€

Thank you for purchasing a CCS product. To ensure proper use of the product. please read this instruction guide before use and keep it for your future reference

1.Introduction

This product is an LED light used for machine vision and industrial inspection. Do not use the product for other applications, and be sure to follow the instructions below.

- Do not use the product in the following situations
- Under conditions or in an environment not described in this instruction guide
- In nuclear energy control systems, railroad systems, aviation systems, vehicles, combustion equipment, medical equipment, amusement machines, or safety equipment.
- In applications involving serious risk to life or property, particularly applications demanding a high level of safety,
- Use and Storage temperrature and humidity

Use the product only in the following environment.

Operating temperature and humidity (indoors only)	Temperature: 0 to 40°C, Humidity: 20 to 85%RH (with no condensation)
Storage temperature and humidity	Temperature: -20 to 60°C, Humidity: 20 to 85%RH (with no condensation)

Installation location

Please install products to locations with following conditions. Incorrect installation location may cause product failure.

- Well-ventilated places with minimal dust.
- In a flat and stable location with minimal vibration.
 Places free from any water, oil, liquid, chemical, or steam.

- Places free from corrosive or combustible gas.
- Places that are not subject to sudden temperature
 Places away from water faucets, boilers, humidifiers, air conditioners, heaters, or stoves.

2. Important Information for Equipment Safety -Read Before Use-

Incorrect usage of the product may result in fire, electric shock, or other serious damages. Please ensure to follow the conditions below.

Symbol Descriptions

Warning	Indicates that incorrect usage may result in serious injury or death.
<u></u> Caution	Indicates that incorrect usage may result in injury or property damage.

Symbol Examples

FIRE HAZARD	Δ symbols indicate caution (also including danger and warning). The example shown here indicates a fire caution.
DISASSEMBLY PROHIBITED	$\ensuremath{ \bigcirc}$ symbols indicate prohibited acts. The example shown here indicates prohibition to disassemble.
_	

symbols indicate instructions for specific actions. The example shown here indicates that the power cord must be disconnected

. Warning

LED light radiation may cause corneal or retinal abnormalities if you look directly at the light. To prevent harmful light exposure, never look directly at the LED light.

product. Doing so may result in fire or electric shock

Make sure that the product is free of moisture or any liquid.

Do not touch the product with wet hand

Do not drop the product or subject it to

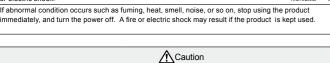
impact. Doing so may cause the product to

Doing so may result in electric shock.

This product generates high temperatures. Do not touch the product while it is turned on or nmediately after it is turned off, or burning may Exposure to water may result in fire, electric result. Provide cooling with a fan or other ventilation if the product is to be used in a closed space

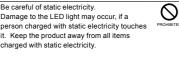
shock, or product failure.

Connect or disconnect the light cable only after turning off the power supply for the LED light. Failure to do so may result in circuit damage, fire caused by a minute spark, or electric shock.



Do not use user-made cables. Doing so may cause product failure. Use the optional extension cable if it is necesszary to extend the listance between the light and the power supply. Make sure that the length of the extension cable is less than 5m. If the extension cable s longer than 5m, the voltage applied to both ends of the LED light will drop due to the DC esistance of the cable. The rated voltage will not be attained for 100% radiant ability and the radiant quantity will drop as a resul

malfunction.



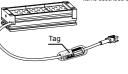
3. Product Information

The product is provided with a tag specifying the class of risk maximum output and wavelength of LED light. The surface of the tag is classified by color according to the luminescence color. The back of the tag specifies the model name, power consumption, and serial number



The right illustration shows the attachment position of the tag.

Be sure to check the contents before using the product and handle the tag with care. If the tag is missing or damaged



4. Installation

Installation on a Frame

Insert the M3 nut into the slit in the

Required Parts M3 nut (conforming to JIS) Fixing Screws (M3)

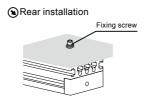
Reference!

Read the LDL2 series

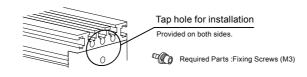
Operation Guide for

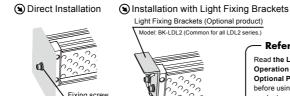
before using optional products.

(Side installation



Installation Using a Tap Hole





The tap holes on the back surface are for factory use. Do not use Caution them for installation.

5. Operating Instructions

Wire Connection

(8)

(8)

 \Diamond

1 Make sure that the power is turned OFF.

2 Connect light cable to power supply output connector



Insert the connector completely

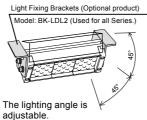
Reference!

2 The Light will come on.

1 Turn the power on.

(S) Lighting at a Fixed Angle

③Lighting When Using the Light Fixing



Preparations!

Focus imaging devices such as cameras microscopes, etc. to inspection objects.

Read the instruction guide of the power

supply for the LED light before use.

Adjustment!

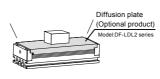
Adjust light range, light angle, and light

Note:Use the power supply for the LED light to adjust the radiant quantity.

Reference! Read the LDL2 series Operation

Guide for Optional Products before using optional products.

Other Applications Backlight Lighting Using a Diffusion Plate



plates cannot be stacked for installation or used

6. Specifications

Common Specifications

LED color	Red (RD)	White (SW)	Blue (BL)	Green (GR)	
Input voltage		24V	max.		
Peak wavelength (typ.)	635nm	_	470nm	525nm	
Relative color temperature (typ.)	_	6600K	_	_	
Cable		0.3m			
Connector	SMR-03V-B				
Polarity and signal	1: Anode (+) brown, 2: NC, 3: Cathode (-) blue				
Case material	Aluminum alloy				
Cooling method	Natural air cooling				

LDL2-41x16 Series

LDL2-74x30 Series

P	Power consumption	1.9W max.	Power consumption	5.7W max.
٧	Veight	50g	Weight	100g

LDL2-80x16 Series

LDL2-146x30 Series

Power consumption	3.8W max.	Power consumption	12W max.
Weight	75g	Weight	170g

LDL2-119x16 Series

LDL2-218x30 Series

Power consumption	5.7W max.	Power consumption
Weight	95g	Weight

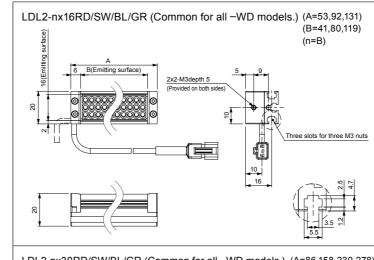
LDL2-266x30 Series

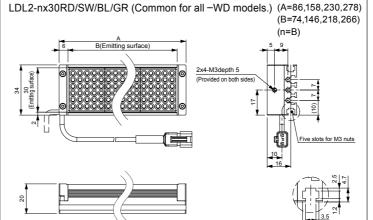
Power consumption	21W max.
Weight	280g

18W max.

240a

7. Dimensional diagrams (mm)





8. EU RoHS Directive

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).

andards for Norto Directive-Compilant Froducts						
Lead	Mercury	Cadmium	Hexavalent chromium	PBB	PBDE	
1000ppm Min	1000ppm Min	100ppm Min	1000ppm Min	1000ppm Min	1000ppm Min	

(Items that are exempted in the RoHS Directive are excluded from these standards.)

9. China RoHS Directive

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 of the 6 restricted substances listed below

Name and amount of toxic and hazardous substances or elements, which products contain

Toxic or Hazardous Substances and Elements

for Environmental Protection	Product name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	PBB	PBDE	
100	LED Lights	×	0	×	0	0	0	

- O: Indicates that this toxic or hazardous substances contained in all the homogeneous materials for this part, according to SJ/T11363-2001
- 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

The number used in this logo is based on "Management Methods for Controlling Pollution by Electronic Information Products" and relate regulations from People's Republic of China. It shows the product usage duration in years for environmental protection. After finishing a product usage, the product need to be re-used or discard appropriately following local law and regulations, complying with safety and usage caution.

产品中有毒有害物质或元素的名称及含量

环保使用期限	产品	有毒有害物质或元素						
		铅 (Pb)	汞 (Hg)	镉(Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	
10)	LED 照明	×	0	×	0	0	0	
* * * * * * * * * * * * * * * * * * *								

○: 表示核音音有數例是 少在该部件的某一均原料料中的含量超出 SJ/T11363-2006 标准规定的限量要求。 (注)铅和镉中的"×",因欧洲 RoHS 没限定,故用"○"表示。

环保使用期限

此标志的数字是根据中华人民共和国电子信息产品污染控制管理办法以及有关标准等。表示该产品的环保使用期限的年数。 遵守产品的安全和使用上的注意,在产品使用后采取适当的方法根据各地法律,规定,回收再利用或进行废弃处理。

10. Laser Safety Standards (IEC60825-1 Amd.2)

LED illumination devices are laser products as stipulated by IEC (International Electrotechnical Commission) and JIS (Japanese Standards Association). A brief summary of the hazard classes is provided below

Class	Outline of risk evaluation
Class 2	Low-output visible light (400 to 700 nm): The eyes are generally protected by an aversion reaction, such as blinking

Warranty Information

EXCEPT FOR THE EXPRESS WARRANTIES STATED IN THIS AGREEMENT, COMPANY MAKES NO ADDTIONANAL WARRANTIES, EXPRESS, IMPLIED, OR STATUTORY, AS TO ANY MATTER WHATSOEVER. IN PARTICULAR, ANY AN ALL WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED. EXCEPT AS EXPRESSLY SET FORTH HEREIN, COMPANY MAKES NO WARRANTIES WITH RESPECT TO THE PRODUCTS.

WARRANTY PERIOD: TWO YEARS (ONE YEAR FOR RADIANT QUANTITY), STARTING FROM CCS Inc. SHIPPING DATE.

CCS Inc. WILL REPAIR OR REPLACE THE PRODUCT FREE OF CHARGE IF IT SHOULD FAIL TO FUNCTION OR IF THE RADIANT QUANTITY OF THE PRODUCT SHOULD DROP TO 50% OR LESS OF ITS INITIAL RADIANT QUANTITY WITHIN THE SPECIFIED WARRANTY PERIOD. IF EITHER OF THESE CONDITIONS OCCURS, PLEASE TAKE THE PRODUCT TO YOUR CCS SALES

WARRANTY TERMS

- CCS Inc. WILL REPAIR OR REPLACE THE PRODUCT FREE OF CHARGE IF IT SHOULD FAIL TO FUNCTION UNDER USE ON
- 2 CCS Inc. WILL REPAIR OR REPLACE THE PRODUCT FREE OF CHARGE IF ITS RADIANT QUANTITY SHOULD DROP TO 50% OR LESS OF ITS INITIAL RADIANT QUANTITY UNDER USE ON OUR SPECIFIED CONDITION IN ACCORDANCE WITH THE INSTRUCTION QUIDE AND OTHER WRITTEN CAUTIONS DURING THE INDICATED WARRANTY PERIOD OF ONE YEAR.
- 3 CCS Inc. WILL CHARGE A REPAIR FEE UNDER THE FOLLOWING CONDITIONS:

 1) IF THE PRODUCT HAS BEEN SUBJECTED TO MISUSE, UNAUTHORIZED REPAIRS, OR MODIFICATION FROM ITS ORIGINAL DESIGN.

 2) IF THE PRODUCT HAS BEEN DAMAGED FROM IMPACTS DUE TO INAPPROPRIATE HANDLING.

 3) IF DAMAGE TO THE PRODUCT RESULTS FROM EXTERNAL CAUSES INCLUDING ACCIDENTS, FIRE, POLLUTION, RIOTS,
 COMMUNICATION FAULURES, EARTHQUAKES, THUNDERSTORMS, WIND AND FLOOD DAMAGE, OR ANY OTHER ACT OF
 PROVIDENCE, OR FROM ANY EXTRAORDINARY CONDITIONS SUCH AS ELECTRICAL SURGES, WATER LEARAGE, CONDENSATION
- OR THE USE OF CHEMICALS.

 OR THE USE OF CHEMICALS.

 4) IF THE DAMAGE RESULTS FROM CONNECTION TO ANY POWER SUPPLY OR TO ANY EQUIPMENT WHICH CCS Inc. DOES NOT MANUFACTURE OR DOES NOT SPECIFY FOR USE.
- 4 CCS ASSUMES NO LIABILITY FOR ANY PURCHASER'S SECONDARY DAMAGE (DAMAGE OF EQUIPMENT, LOSS OF OPPORTUNITIES LOSS OF PROFITS, ETC.) OR ANY OTHER DAMAGE RESULTING FROM A FAILURE OF OUR PRODUCT.

THIS WARRANTY INFORMATION PROVIDES THE SCOPE OF CCS'S PRODUCT WARRANTY WITHIN THE SPECIFIED PERIOD, AND DOES NOT INDICATE OR IMPLY ANY FURTHER GUARANTEE BEYOND THE WARRANTY TERMS

CONTACT CCS FOR INQUIRIES OR INFORMATION ON REPAIRS TO THE PRODUCT AFTER THE EXPIRATION OF THE WARRANTY

NOTE: THE RADIANT QUANTITY REFERS TO THE WATTAGE OF PHYSICAL ENERGY RADIATED FROM A LED. IT REFERS TO THE RADIATION LUMINOSITY OF THE LED MEASURED UNDER CONDITIONS SPECIFIED BY CGS OR THE RADIATION ILLUMINATION OF THE LED UNDER SPECIFIED IRRADIATION CONDITIONS. CGS SPECIFIES THE RADIANT QUANTITY FOR EACH LED LIGHT BECAUSE THE MEASUREMENT AND IRRADIATION CONDITIONS VARY FROM THE FORM, THE APPLICATION AND THE IRRADIATION WAVELENGTH.

Please contact CCS for product information, and further information.

The Instruction Guide is available from CCS's website as well. http://www.ccs-inc.co.jp



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