

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: NC, 3: Cathode (-) blue					
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	Relative irradiation strength (%) 0 40 0 40 0 40 0 40 0 40 0 40 0 40 0 4	Blue Green 480 530 580 Wavelength	630 680 T	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



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 Plate





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

The light is polarized. You can prevent 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.

•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.



Name	Diffusion Plate	Polarizing Plate	Protective Plate	Light Fixing Brackets	DF/PL/CV-LDL2
Model name	DF-LDL2-41X16	PL-LDL2-41X16(-VE)	CV-LDL2-41X16	BK-LDL2	16-mm-wide models
(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	_	
Two types of Po Mounting with I	olarizing Plate ar Emission from Fou	e available. Use r Directions	combinations for	the following cases.	(Bilaterally Symmet
Example		X16	ferentiating Paired	Polarizing Plates	
	Use a comb two pairs of types.	bination of the two	lack	Not black	
The polarizati	PL-LDL2-41X	C16-VEPaire90°.black	d Polarizing Plates w ap in opposite direction when they overlap in	ill turn black when they ons and will not be n the same direction.	



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.

You	can e	asily access informati	ion for the desired product by visiting	the CCS websit	e (Machine Vision	Applications) a	nd entering the	seven-digit nu	Imber into the direct r	number input space.
		Direct number	Model	LED color	Emission surface size	Input voltage	Power consumption	Weight	Supported	d options
	del	1003702	LDL2-41X16RD	Red					Diffusion Plate	DF-LDL2-41X16
	E V	1003705	LDL2-41X16SW	White	41x16 mm	24.1/	1.0.W/	50 g	Polarizing Plate	PL-LDL2-41X16 (PL-LDL2-41X16-VE)
	TOV	1003704	LDL2-41X16BL	Blue	41X1011111	24 V	1.9 W	50 g	Protective Plate	CV-LDL2-41X16
	Nai	1003703	LDL2-41X16GR	Green					Light Fixing Brackets	BK-LDL2
	e	1003706	LDL2-41X16RD-WD	Red					Diffusion Plate	DF-LDL2-41X16
	Don	1003709	LDL2-41X16SW-WD	White					Polarizing Plate	PL-LDL2-41X16 (PL-LDL2-41X16-VE)
ace	der	1003708	LDL2-41X16BL-WD	Blue	41x16 mm	24 V	1.9 W	50 g	Protective Plate	CV-LDL2-41X16
surf	Š	1003707	LDL2-41X16GR-WD	Green					Light Fixing Brackets	BK-LDL2
u s	del	1003710	LDL2-80X16RD	Red					Diffusion Plate	DF-LDL2-80X16
ssic	0 L	1003713	LDL2-80X16SW	White					Polarizing Plate	PL-LDL2-80X16
emi	NO.	1003712	LDL2-80X16BL	Blue	80x16 mm	24 V	3.8 W	75 g	Protective Plate	CV-LDL2-80X16
de	Narr	1003711	LDL2-80X16GR	Green					Light Fixing Brackets	BK-LDL2
-K	-	1003714	LDL2-80X16RD-WD	Red					Diffusion Plate	DF-LDL2-80X16
mm	pol	1003717	L DI 2-80X16SW-WD	White					Polarizing Plate	PL-LDL2-80X16
16-	e L	1003716		Blue	80x16 mm	24 V	3.8 W	75 g	Protective Plate	(PL-LDL2-80X16-VE)
ith	Vid	1003715	LDL2-80X16GR-WD	Green					Light Fixing Brackets	BK-LDL2
<u></u> ≥	ē	1003718		Red					Diffusion Plate	
lode	pou	1003721	LDL2-119X16SW	White					Polarizing Plate	PL-LDL2-119X16
2	NO	1003720	L DI 2-119X16BI	Blue	119x16 mm	24 V	5.7 W	95 g	Protective Plate	(PL-LDL2-119X16-VE)
	larr	1003719	LDL2-119X16GR	Green					Light Fixing Brackets	BK-LDL2
	-	1003722		Red					Diffusion Plate	DF-I DI 2-119X16
	pode	1003725	I DI 2-119X16SW-WD	White					Polarizing Plate	PL-LDL2-119X16
	le m	1003724	L DL 2-119X16BL-WD	Blue	119x16 mm	24 V	5.7 W	95 g	Protective Plate	(PL-LDL2-119X16-VE)
	Vic	1003723	L DL 2-119X16GR-WD	Green					Light Fixing Brackets	BK-LDL2
	e	1003726	I DI 2-74X30RD	Red					Diffusion Plate	DF-LDL2-74X30
	Dom	1003729	I DI 2-74X30SW	White					Polarizing Plate	PL-LDL2-74X30
	N	1003728	I DI 2-74X30BI	Blue	74x30 mm	24 V	5.7 W	100 g	Protective Plate	(PL-LDL2-74X30-VE) CV-LDL2-74X30
	Varr	1003727	LDL2-74X30GR	Green					Light Fixing Brackets	BK-LDL2
		1003730	LDL2-74X30RD-WD	Red					Diffusion Plate	DF-LDL2-74X30
	por	1003733	LDL2-74X30SW-WD	White					Polarizing Plate	PL-LDL2-74X30
	de n	1003732	LDL2-74X30BL-WD	Blue	74x30 mm	24 V	5.7 W	100 g	Protective Plate	CV-LDL2-74X30
	Ň	1003731	LDL2-74X30GR-WD	Green					Light Fixing Brackets	BK-LDL2
	lel	1003734	LDL2-146X30RD	Red					Diffusion Plate	DF-LDL2-146X30
	D D D D D	1003737	LDL2-146X30SW	White					Polarizing Plate	PL-LDL2-146X30
lce	NO	1003736	LDL2-146X30BL	Blue	146x30 mm	24 V	12 W	170 g	Protective Plate	CV-LDL2-146X30
urfa	Varr	1003735	LDL2-146X30GR	Green					Light Fixing Brackets	BK-LDL2
s u		1003738	LDL2-146X30RD-WD	Red					Diffusion Plate	DF-LDL2-146X30
ssic	pot	1003741	LDL2-146X30SW-WD	White					Polarizing Plate	PL-LDL2-146X30
mi	le T	1003740	LDL2-146X30BL-WD	Blue	146x30 mm	24 V	12 W	170 g	Protective Plate	CV-LDL2-146X30
de	Vic	1003739	LDL2-146X30GR-WD	Green					Light Fixing Brackets	BK-LDL2
-wio	le	1003742	LDL2-218X30RD	Red					Diffusion Plate	DF-LDL2-218X30
mm	moc	1003745	LDL2-218X30SW	White					Polarizing Plate	PL-LDL2-218X30
30-	NO	1003744	LDL2-218X30BL	Blue	218x30 mm	24 V	18 W	240 g	Protective Plate	CV-LDL2-218X30-VE)
ith	Varr	1003743	LDL2-218X30GR	Green					Light Fixing Brackets	BK-LDL2
<u>≥</u>	-	1003746	LDL2-218X30RD-WD	Red					Diffusion Plate	DF-LDL2-218X30
lode	por	1003749	LDL2-218X30SW-WD	White					Polarizing Plate	PL-LDL2-218X30
2	fe T	1003748	LDL2-218X30BL-WD	Blue	218x30 mm	24 V	18 W	240 g	Protective Plate	CV-LDL2-218X30
	Wie	1003747	LDL2-218X30GR-WD	Green					Light Fixing Brackets	BK-LDL2
	del	1003750	LDL2-266X30RD	Red					Diffusion Plate	DF-LDL2-266X30
	moc	1003753	LDL2-266X30SW	White					Polarizing Plate	PL-LDL2-266X30
	row	1003752	LDL2-266X30BL	Blue	266x30 mm	24 V	21 W	280 g	Protective Plate	CV-LDL2-266X30
	Nar	1003751	LDL2-266X30GR	Green					Light Fixing Brackets	BK-LDL2
	ē	1003754	LDL2-266X30RD-WD	Red					Diffusion Plate	DF-LDL2-266X30
	pou	1003757	LDL2-266X30SW-WD	White	000-00	0414	04.144	200 -	Polarizing Plate	PL-LDL2-266X30 (PL-LDL2-266X30-VE)
	der	1003756	LDL2-266X30BL-WD	Blue	200X30 mm	24 V	ZIVV	200 g	Protective Plate	CV-LDL2-266X30
	Ň	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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Direct Lighting LDL2 Series Instruction Guide CE

Thank you for purchasing a CCS product. To ensure proper use of the product. please read this instruction quide 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 Temperature: 0 to 40°C, Humidity: 20 to 85%RH (with no condensation) (indoors only) 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.
- In a flat and stable location with minimal vibration.
 Places free from any water, oil, liquid, chemical, or steam. Well-ventilated places with minimal dust. 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

	Indicates that incorrect usage may result in serious injury or death.
	Indicates that incorrect usage may result in injury or property damage
Symbol Exam	ples

RIE HAZARD	Δ symbols indicate caution (also including danger and warning). The example shown here indicates a fire caution.
DISASSEMBLY PROHIBITED	\bigotimes symbols indicate prohibited acts. The example shown here indicates prohibition to disassemble.
UNPLUG	 symbols indicate instructions for specific actions. The example shown here indicates that the power cord must be disconnected.

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Be careful of static electricity 0 \odot cable is less than 5m. If the extension cable Damage to the LED light may occur, if a s longer than 5m, the voltage applied to both person charged with static electricity touches ends of the LED light will drop due to the DC t. Keep the product away from all items esistance of the cable. The rated voltage harged with static electricity. will not be attained for 100% radiant ability and the radiant quantity will drop as a resul

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



4.Installation

Installation on a Frame





Installation Using a Tap Hole



Tap hole for installation Provided on both sides Required Parts :Fixing Screws (M3)

Reference!

Preparations!

Adjustment!

Reference!

Other Applications

Diffusion Plate

quantity to optimize images

A

Read the instruction guide of the power

Focus imaging devices such as cameras.

microscopes, etc. to inspection objects.

Adjust light range, light angle, and light

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

Read the LDL2 series Operation

Guide for Optional Products before using optional products.

Backlight Lighting Using a

ion plates, polarizing plates, and prote

plates cannot be stacked for installation or used

Diffusion plate

(Optional product)

Insert the connector completely

supply for the LED light before use.



The tap holes on the back surface are for factory use. Do not use Caution them for installation. - 3

5. Operating Instructions Wire Connection 1 Make sure that the power is turned OFF. 2 Connect light cable to power supply output connector





2 The Light will come on.

SLighting at a Fixed Angle



SLighting When Using the Light Fixing **Brackets**

Light Fixing Brackets (Optional product) Model: BK-LDL2 (Used for all Series.) The lighting angle is

adjustable

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6. Specifications



			Diao (Di		hovovalant ohrom	ium (E) polybromina	tod hinhonyl (E	PP) and (6) n	olybrominatod	diphonul other		
nput voltage		24V	max.		nexavalent cinomium, (5) polyoronimated opnenyr (FBD), and (6) polyoronimated opnenyr ether (FBDE).							
Peak wavelength typ.)	635nm	_	470nm	525nm	*Standards for "	RoHS Directive-Co	Cadm	ium Hex	avalent chromium	1 PBB		PBDE
Relative color emperature (typ.)	_	6600K	_	_	(Items that are e	exempted in the Rol	HS Directive a	are excluded	from these sta	andards.)	Min 1	UUUppm Min
Cable 0.3m					9 China		roctivo					
Connector		SMR-	<u>9,01118</u>		lective							
Polarity and signal	1: Anode (+) brown, 2: NC, 3: Cathode (-) blue				China RoHS Directive is formally known as "Management Methods for Controlling Pollution by Electronic Information							
Case material	Aluminum alloy				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 binhenvil (PBB)							
Cooling method		Natural a		and polybrominated diphenyl ether (PBDE). This regulation requires electronic information products which are						hich are		
					manufactured or	imported, and sold	in China, to c	learly disclos	e contents of	the 6 restricte	ed substance	s listed below.
					Nam	ne and amount of to	xic and hazar	dous substa	nces or eleme	nts, which pr	oducts conta	ain
DL2-41x16 Serie	S	LDL2-74	x30 Series	6	Usage Deadline			Toxic	or Hazardous Sub	ostances and Ele	ements	
Power consumption	1.9W max.	Power co	nsumption	5.7W max.	for Environmental Protection	Product name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent chromium (Cr(VI))	PBB	PBDE
Veight	50g	Weight		100g	0	LED Lights	×	0	×	0	0	0

LDL2-80x16 Serie	s	LDL2-146x30 Series					
Power consumption	3.8W max.	Power consumption	12W max.				
Weight	75g	Weight	170g				

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DI 2 110v16 Sorie		1 DI 2 219y20 Sori	~~			产品	中有毒有害	物质或元素	的名称及含量			
DL2-119x10 Series		LDL2-210X30 Series		五尺体用期限	±-0	有毒有害物质或元素						
Power consumption	5.7W max.	Power consumption	18W max.		/~яя	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr(VI))	多溴联苯 (PBB)	多溴二苯醚 (PBDE)	
Weight	95g	Weight	240g		LED 照明	×	0	×	0	0	0	
				 〇:表示该有毒 ※:表示该有毒 (注)铅和镉中的 	有害物质在该部件所有 有害物质至少在该部件 う" ×",因欧洲 RoHS 於	均质材料中的含 的某一均质材料 &限定,故用"(計量均在 SJ/T11 中的含量超出 ○"表示。	363-2006 标准 SJ/T11363-200	ŧ规定的限量要求以下 06 标准规定的限量要	"。 "求。		
		LDL2-266x30 Seri	es									
		Power consumption	21W max.	坏保使用期限 此标志的数字员 遵守产品的安全	是根据中华人民共和国# 全和使用上的注意,在;	电子信息产品污 产品使用后采取	染控制管理办》 [适当的方法根排	去以及有关标准 居各地法律,规	:等,表示该产品的环 视定,回收再利用或进	保使用期限的年数。 行废弃处理。		
		Weight	280g									

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 bazardous 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)

ates that this toxic or ha ardous substances contained in all the homoge rials for this part, according to SJ/T11363-2006 is within the limit requirement.

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 cadmium are excluded in EU RoHS

bage declame to environmental protection in The number used in this log to 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.

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

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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 FITHERS 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 REPRESENTATIVE

WARRANTY TERMS

- CCS Inc. WILL REPAIR OR REPLACE THE PRODUCT FREE OF CHARGE IF IT SHOULD FAIL TO FUNCTION UNDER USE ON CE WITH THE INS RUCTION GUIDE AND OTHER WE INDICATED WARRANTY PERIOD OF TWO YEARS
- 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 GUIDE AND OTHER WRITEN CAUTIONS DURING THE INDICATED WARRANTY PERIOD OF ONE YEAR.
- CCS Inc. WILL CHARGE A REPAIR FEE UNDER THE FOLLOWING CONDITIONS:
 IF THE PRODUCT HAS BEEN SUBJECTED TO MISUSE, UNAUTHORIZED REPAIRS, OR MODIFICATION FROM ITS ORIGINAL DESIGN.
 IF THE PRODUCT HAS BEEN DAMAGED FROM IMPACTS DUE TO INAPPROPRIATE HANDLING.
 IF DAMAGE TO THE PRODUCT RESULTS FROM EXTERNAL CAUSES INCLUDING ACCIDENTS, FIRE, POLLUTION, RIOTS,
- DAMAGE TO THE TROUGHT REDUCTION TO THE ACTION OF THE ACTION OF THE ACTION OF THE ACT OF PROVIDENCE, OR FROM ANY EXTRAORDINARY CONDITIONS SUCH AS ELECTRICAL SURGES, WATER LEAKAGE, CONDENS.
- R 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.
- 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 OT 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 CCS OR THE RADIATION ILLUMINATION OF THE LED UNDER SPECIFIED IRRADIATION CONDITIONS. CCS SPECIFIES THE RADIANT QUANTITY FOR EACH LED LIGHT BECAUSE THE MEASUREMENT AND IRRADIATION CONDITIONS VARY FROM THE FORM, THE APPLICATION AND THE IRRADIATION WAVELENGTH.



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