

Direct Bar Lights LDL2 Series



A Broad Range of Applications

A freely adjustable light direction and angle allow these models to handle a wide variety of applications.

The two figures shown below demonstrate how the illumination's axis and angle can be changed to yield completely different images. This becomes an issue with workpieces with glossy surfaces or parallel grooves, for example. Bar Lights are adjustable allowing you to change

the light direction and angle to obtain the optimal image.



Light Direction, Image B





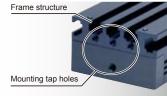
Image A is washed out because the light reflects straight back from parallel metallic grooves. Image B shows the lettering clearly because the light reflects out of the field of view, leaving the background dark.

Mounting brackets are available for four different illumination directions. For further details, refer to page 101.

For the LDL2-33×8 Series For the LDL2 Series

Flexibility of Mounting to Match Your Site Environment

Installation can be achieved with either frame mounting or traditional mounting with tap holes. You therefore have the freedom to select the installation method according to your site environment.



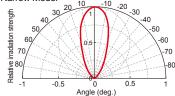
*The LDL2-33×8 Series provides only tap holes for installation.

Focus Angle Characteristics of **Wide and Narrow Types**

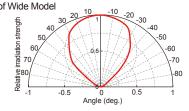
There are two directional pattern selections: narrow, which focuses the light into a beam, and wide (WD), which spreads the light out over a broad area. This selection is available over the entire lineup.

Directional Characteristics of Narrow Model



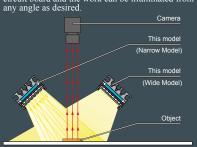


Directional Characteristics of Wide Model Larger emission surface



Illumination structure of LDL2-74×30

LEDs are arranged at high-density on a single flat circuit board and the work can be illuminated from any angle as desired.



The LDL2-33×8, the smallest member of the Series, helps you save space

Lightweight, compact designs lend themselves to installation in tight equipment spaces.



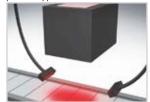
*Only the wide directional pattern is

Application Examples

Installation in tight equipment spaces is







Direct Number: A direct number is a 7-digit number assigned to a CCS product. You can easily access the web page providing information on any desired product by simply entering the direct number in the space provided on the CCS website pages for machine vision. (Refer to the back cover of this brochure.)

Product Lineup Table

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
emiting surface	1004646	LDL2-33×8RD	•		D P 1 B	
	1004647	LDL2-33×8SW	0	24V / 0.8W		1
	1004648	LDL2-33×8BL		240 / 0.000		'
Light	1004649	LDL2-33×8GR			В	
	1003702	LDL2-41×16RD				
	1003705	LDL2-41×16SW	0			
	1003704	LDL2-41×16BL			D	
	1003703	LDL2-41×16GR		24V / 1.9W	D·P·C·B	2
	1003706	LDL2-41×16RD-WD		24071.500		
	1003709	LDL2-41×16SW-WD	0			
	1003708	LDL2-41×16BL-WD				
	1003707	LDL2-41×16GR-WD				
	1003710	LDL2-80×16RD	•		D·P·C·B	
LDL2	1003713	LDL2-80×16SW	0			
	1003712	LDL2-80×16BL				
ng s	1003711	LDL2-80×16GR	•	24V / 3.8W		
i i i i i	1003714	LDL2-80×16RD-WD		240 / 3.000		
ht-e	1003717	LDL2-80×16SW-WD	0			
Lig	1003716	LDL2-80×16BL-WD				
	1003715	LDL2-80×16GR-WD	•			
	1003718	LDL2-119×16RD			D.P.C.B	
	1003721	LDL2-119×16SW	0			
	1003720	LDL2-119×16BL				
	1003719	LDL2-119×16GR		24V / 5.7W		
	1003722	LDL2-119×16RD-WD	•	24V/3./VV		
	1003725	LDL2-119×16SW-WD	0			
	1003724	LDL2-119×16BL-WD				
	1003723	LDL2-119×16GR-WD				

*The peak wavelength for Red lights is 635 nm. If a sharp-cut filter is required, use
a R60 Filter (optional).

^{*}The LDL2-33×8 provides only the wide directional pattern.

Existing Bar Light LDL series was discontinued at the end of July, 2011. LDL2 series is recommended as replacement.

Built-to-order models

Series	:	Model Name	Color		Power Consumption	Option	Dimension
Light-emiting surface	LDL2-158×16(-WD)		158×16mm	24V / 7.6W			
	LDL2-197×16(-WD)		197×16mm	24V / 9.5W			
	e C	LDL2-236×16(-WD)	•	236×16mm	24V / 12W	D	
	urfa mr	LDL2-275×16(-WD)		275×16mm	24V / 14W		
	LDL2-314×16(-WD)		314×16mm	24V / 16W	P Ċ	2	
	LDL2-353×16(-WD)		353×16mm	24V / 18W			
	ht-e wi	LDL2-392×16(-WD)		392×16mm	24V / 19W	B	
	Lig	LDL2-431×16(-WD)		431×16mm	24V / 21W		
	LDL2-470×16(-WD)		470×16mm	24V / 23W			
	LDL2-509×16(-WD)		509×16mm	24V / 25W			

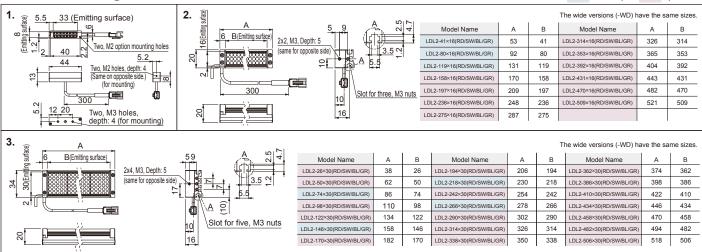
^{*}The peak wavelength for Red lights is 635 nm. If a sharp-cut filter is required, use a R60 Filter (optional).

Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimensio
	1003726	LDL2-74×30RD	•		D. P. C. B	
	1003729	LDL2-74×30SW	0	24V / 5.7W		
	1003728	LDL2-74×30BL				
	1003727	LDL2-74×30GR				
	1003730	LDL2-74×30RD-WD		24073.700		
	1003733	LDL2-74×30SW-WD				
	1003732	LDL2-74×30BL-WD				
	1003731	LDL2-74×30GR-WD				
	1003734	LDL2-146×30RD				
	1003737	LDL2-146×30SW			D·P·C·B	3
	1003736	LDL2-146×30BL				
	1003735	LDL2-146×30GR		24V / 12W		
	1003738	LDL2-146×30RD-WD	•	240/1200		
8	1003741	LDL2-146×30SW-WD	0			
urface	1003740	LDL2-146×30BL-WD				
LDL2	1003739	LDL2-146×30GR-WD				
LULZ	1003742	LDL2-218×30RD			D. P. C. B	
A Property of the property of	1003745	LDL2-218×30SW	0			
Light	1003744	LDL2-218×30BL				
	1003743	LDL2-218×30GR		24V / 18W		
	1003746	LDL2-218×30RD-WD	•	240 / 1000		
	1003749	LDL2-218×30SW-WD	0			
	1003748	LDL2-218×30BL-WD				
	1003747	LDL2-218×30GR-WD	•			
	1003750	LDL2-266×30RD	•		D P C B	
	1003753	LDL2-266×30SW	0			
	1003752	LDL2-266×30BL				
	1003751	LDL2-266×30GR		24V / 21W		
	1003754	LDL2-266×30RD-WD	•	240/2100		
	1003757	LDL2-266×30SW-WD	0			
	1003756	LDL2-266×30BL-WD		1		
	1003755	LDL2-266×30GR-WD				

Series		Model Name	Color	Emission surface size	Power Consumption	Option	Dimension
	LDL2-26×30(-WD)		26×30mm	24V / 1.9W			
		LDL2-50×30(-WD)		50×30mm	24V / 3.8W		
		LDL2-98×30(-WD)		98×30mm	24V / 7.6W		
		LDL2-122×30(-WD)		122×30mm	24V / 9.5W	D.P.C.B	3
		LDL2-170×30(-WD)		170×30mm	24V / 14W		
LDL2		LDL2-194×30(-WD)		194×30mm	24V / 16W		
	face 1	LDL2-242×30(-WD)		242×30mm	24V / 19W		
	sur mu	LDL2-290×30(-WD)		290×30mm	24V / 23W		
	itting n: 30	LDL2-314×30(-WD)		314×30mm	24V / 25W		
	-em widtl	LDL2-338×30(-WD)		338×30mm	24V / 27W		
	igh!	LDL2-362×30(-WD)		362×30mm	24V / 29W		
		LDL2-386×30(-WD)		386×30mm	24V / 31W		
		LDL2-410×30(-WD)		410×30mm	24V / 33W		
		LDL2-434×30(-WD)		434×30mm	24V / 35W		
	LDL2-458×30(-WD)		458×30mm	24V / 37W			
		LDL2-482×30(-WD)		482×30mm	24V / 38W		
	LDL2-506×30(-WD)		506×30mm	24V / 40W			

Standard part

Dimension Diagrams (Unit: mm)



^{*}The following letters indicate options.

D: Diffusion Plate, P: Polarizing Plate, C: Cover, B: Bracket

^{*}For further details on these options, refer to page 99 to 101.

^{*}The optional WD suffix indicates the wide directional pattern.

^{*}The following letters indicate options.

D: Diffusion Plate, P: Polarizing Plate, C: Cover, B: Bracket

^{*}For the availability of other options, ask your CCS representative.