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LDL/LDQ Series

High-intensity LED arrays in a rectangular oblique illumination unit

High-density arrays using high-intensity LEDs create optimum oblique lighting conditions for LCD character inspection, label inspection, and other inspection applications.

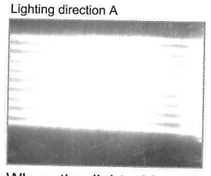


Independently Adjustable Axes

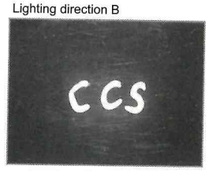
The angle of the LED arrays can be adjusted independently for use in a wide range of different situations. The angle and direction of lighting can completely alter the image obtained. Each application differs in its reflectivity and the presence of any surface characteristics. Using the LDQ Series, the lighting can be adjusted accordingly to use direct light, reflected light, or diffused reflected light to obtain the best possible image.



Lighting direction A



Lighting direction B

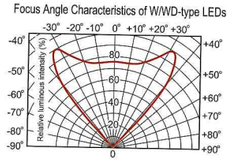


When the light shines in direction A, the light strikes the surface at right angles and causes the surface to shine. When the light shines in direction B, the light reflects in the opposite direction and is not caught, causing the creation of a dark field of view that sets off the characters.

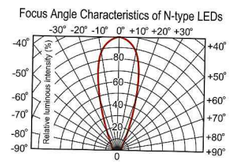
Focus Angle Characteristics of Wide and Narrow Types

The focus angle characteristics of the LEDs can be selected from two different types to match the distance to the workpiece and the field of view. The W (or WD) types are for uniform viewing of a wide field and the N types are for bright viewing of a narrow range.

Focus Angle Characteristics of W/WD-type LEDs



Focus Angle Characteristics of N-type LEDs



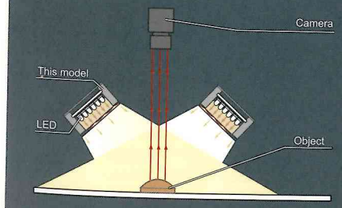
Single-unit (LDQ) with 4-channel independent control

The LDQ Series with four independently adjustable angles is also available. This Series supports 4-channel independent control to enable high-precision lighting settings. The angle of incidence can be set from 0° to 90°.



Illumination structure of LDL-74x27

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



Examples of Bar Illumination Images

Inspecting characters engraved on a wafer

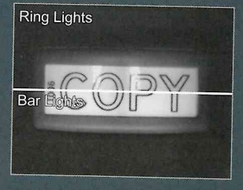
Only the characters stand out clearly.

Light used: LDL-74×27



Inspecting printed characters on a reflective curved surface (stamp case).

The top half of the image shows glare created when using direct reflection such as a ring light. The lower half shows clear image produced by using an LDL Series.



Reading two-dimensional bar code

A clear image is produced of two-dimensional bar code on a glass circuit board.

Light used: LDL custom light



Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
LDL *1	1000591	LDL-34×8		12V/1.2W	D·P	1
	1000598	LDL-34×8-SW		24V/1.4W		
	1000592	LDL-34×8-BL				
	1000594	LDL-34×8-GR				
	1000626	LDL-42×15		12V/1.5W	D·P	2
	1000642	LDL-42×15-SW		24V/2.0W		
	1000627	LDL-42×15-BL				
	1000629	LDL-42×15-GR				
	1000712	LDL-74×27-N		12V/5.4W	D·P	3
	1000720	LDL-74×27-W				
	1000715	LDL-74×27-SW		24V/7.3W		
	1000709	LDL-74×27-BL				
	1000710	LDL-74×27-GR				
	1000734	LDL-82×15		12V/3.0W	D·P	4
	1000745	LDL-82×15-SW		24V/4.1W		
	1000737	LDL-82×15-BL				
	1000738	LDL-82×15-GR				
	1000436	LDL-130×15		12V/4.8W	D·P*	5
	1000446	LDL-130×15-SW		24V/6.5W		
	1000437	LDL-130×15-BL				
	1000438	LDL-130×15-GR				
	1000486	LDL-180×16		12V/6.6W	D·P*	6
	1000492	LDL-180×16-SW		24V/9.0W		
	1000487	LDL-180×16-BL				
	1000488	LDL-180×16-GR				
	1000553	LDL-247×16		12V/9.0W	D·P*	7
	1000556	LDL-247×16-SW		24V/12W	D·P*	8
	1000554	LDL-247×16-BL				
	1000555	LDL-247×16-GR				

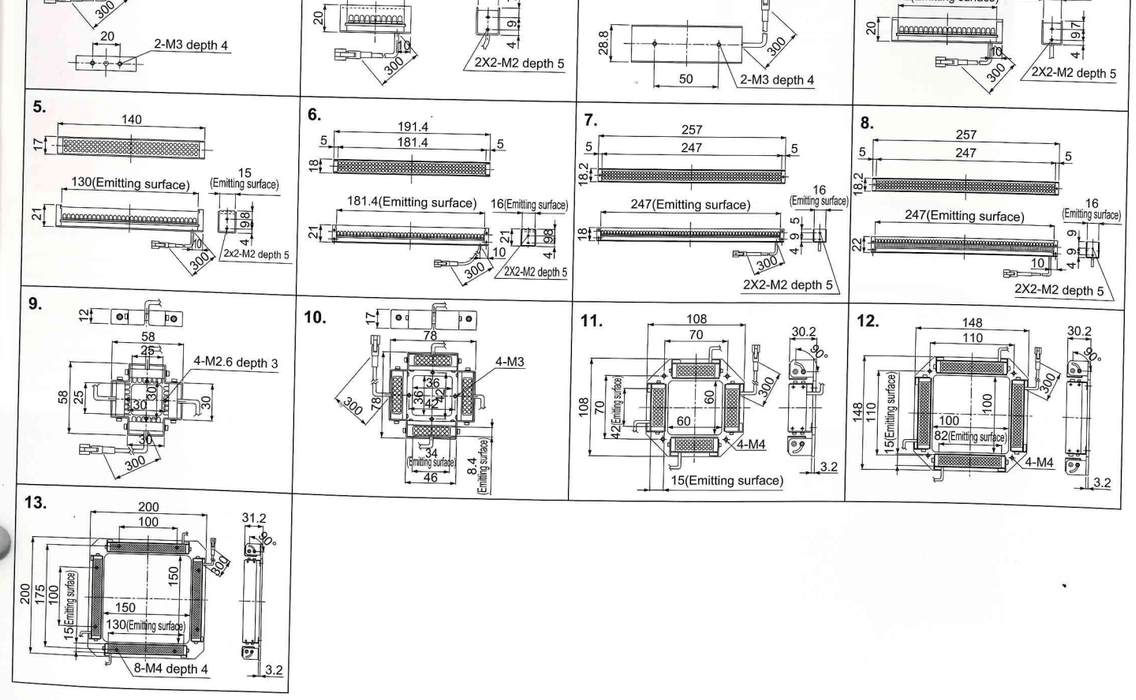
Series	Direct Number	Model Name	Color	Power Consumption	Option	Dimension
LDQ	1001053	LDQ-60-25		12V/1.2W	—	9
	1001056	LDQ-60-25-SW		24V/1.4W		
	1001054	LDQ-60-25-BL				
	1001055	LDQ-60-25-GR				
	1001059	LDQ-78		12V/4.8W	D·P	10
	1001062	LDQ-78-SW		24V/5.8W		
	1001060	LDQ-78-BL				
	1001061	LDQ-78-GR				
	1001008	LDQ-100A		12V/6.0W	D·P	11
	1001011	LDQ-100A-SW		24V/8.2W		
	1001009	LDQ-100A-BL				
	1001010	LDQ-100A-GR				
	1001027	LDQ-150A		12V/12W	D·P	12
	1001036	LDQ-150A-SW		24V/16W		
	1001029	LDQ-150A-BL				
	1001031	LDQ-150A-GR				
	1001042	LDQ-200A		12V/20W	D·P*	13
	1001045	LDQ-200A-SW		24V/26W		
	1001043	LDQ-200A-BL				
	1001044	LDQ-200A-GR				

*Indicates the polarizing plate is supplied with a clear acrylic panel used for installation.

*To order diffuser plates (D) for the LDQ Series please order four (4) diffuser plates for the LDL Series of the appropriate size (See page 71)

*1 : The LDL Series includes SW2 White Lights with higher light intensity than the SW White Lights. Refer to page 49 for details.

Dimensions (Unit: mm)



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