

Direct ring light

MDRL series

Features

- High-luminance LEDs deployed at high density to produce 360-degree shadow-free illumination.
- Standard type of LED lighting for a wide range of applications
- Ability to select the model that matches our lenses

Major applications

- Positioning of substrates and printed boards, inspection of chip components
- Liquid crystal alignment, plastic container inspection
- Label inspection, mounter, IC impress inspection and suchlike

Model explanation

MDRL- C * ○ ○

Internal diameter of the ring (mm)
Luminescent color (R: red, G: green, B: blue, W: white)



Lineup of direct-ring lights

Model	Exterior view	Luminescent color	Max. rated current I _{RM} (A)	Internal diameter of the ring (mm)	External diameter of the ring (mm)	lighting angle	Weight (g)
MDRL-CR10	A	Red	0.11	φ10	φ32	70 °	50
*MDRL-CG10	A	Green	0.17	φ10	φ32	70 °	
MDRL-CB10	A	Blue	0.17	φ10	φ32	70 °	
MDRL-CW10	A	White	0.17	φ10	φ32	70 °	
MDRL-CR16	B	Red	0.24	φ16	φ48	76 °	65
*MDRL-CG16	B	Green	0.37	φ16	φ48	76 °	
MDRL-CB16	B	Blue	0.37	φ16	φ48	76 °	
MDRL-CW16	B	White	0.37	φ16	φ48	76 °	
MDRL-CR28	C	Red	0.20	φ28	φ50	75 °	65
*MDRL-CG28	C	Green	0.31	φ28	φ50	75 °	
MDRL-CB28	C	Blue	0.31	φ28	φ50	75 °	
MDRL-CW28	C	White	0.31	φ28	φ50	75 °	
MDRL-CR31	D	Red	0.36	φ31	φ66	75 °	130
*MDRL-CG31	D	Green	0.55	φ31	φ66	75 °	
MDRL-CB31	D	Blue	0.55	φ31	φ66	75 °	
MDRL-CW31	D	White	0.55	φ31	φ66	75 °	
MDRL-CR50	E	Red	0.64	φ50	φ90	70 °	180
*MDRL-CG50	E	Green	0.96	φ50	φ90	70 °	
MDRL-CB50	E	Blue	0.96	φ50	φ90	70 °	
MDRL-CW50	E	White	0.96	φ50	φ90	70 °	
MDRL-CR56	F	Red	1.12	φ56	φ120	50 °	520
*MDRL-CG56	F	Green	1.55	φ56	φ120	50 °	
MDRL-CB56	F	Blue	1.55	φ56	φ120	50 °	
MDRL-CW56	F	White	1.55	φ56	φ120	50 °	

● Made to order

Options for direct-ring lights

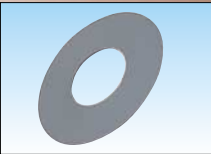
Diffusion plates and polarizing plates are available to reduce the reflection of light. Different types of lens adapters are available as well.



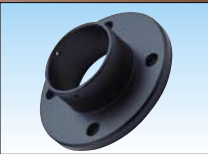
Adapter



Diffusion plate



Polarizing plate

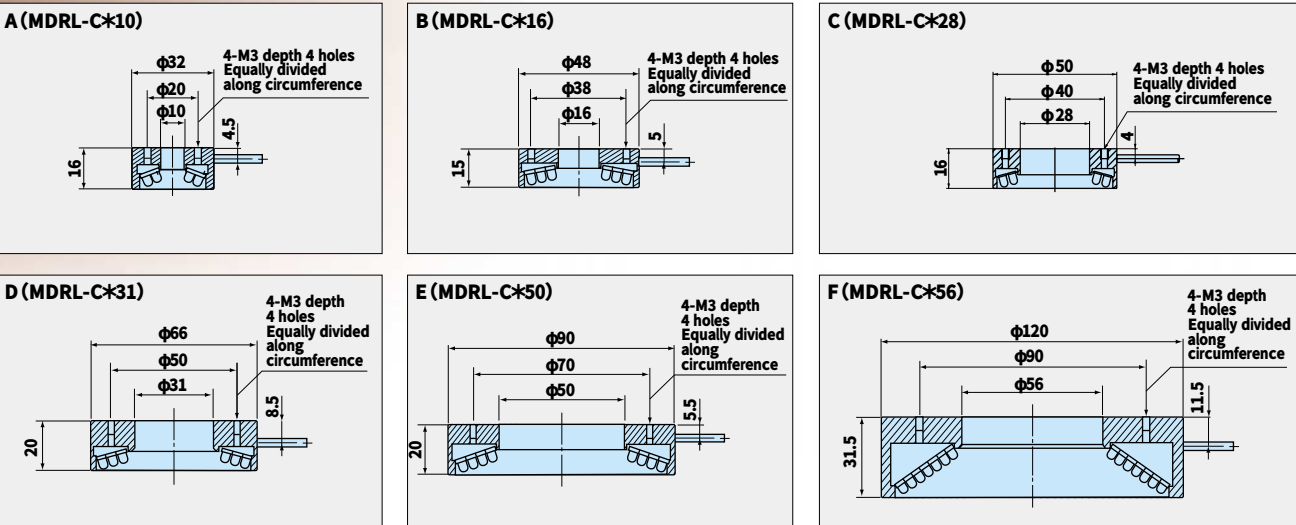


Lens adapter

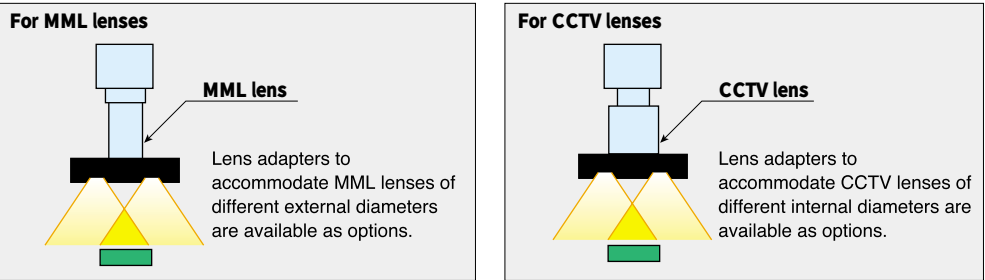
➡ see page 32-33.

MDRL series

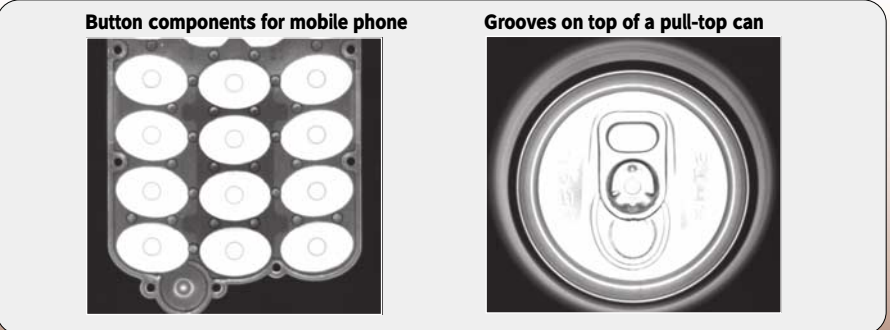
Exterior view



Lighting configuration



Imaging examples



Luminous intensity distribution characteristics

