

# Low Angle Ring Illumination CV-RLA/RLA-00 Series



## Low Angle Ring Illumination: CV-RLA Series

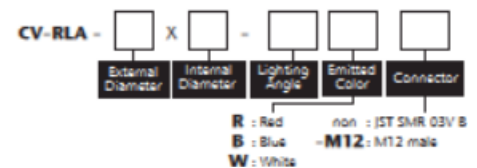
- Reflection can be minimized by the low-angle, dark-field lighting configuration
- Ideal for imaging of uneven surfaces, eg. Embossment and surface flaw detection



## Zero Angle Ring Illumination: CV-RLA-00 Series

- Indirect, horizontal 360-degree inner diameter illumination
- Used at a short WD to the test object

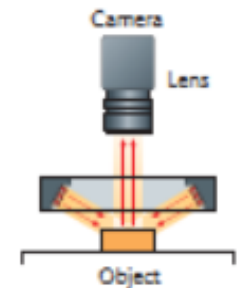
## Explanation of Model Code



Model	Emitted Color	Power (W)	External Dimensions (mm)			Lighting Angle (Deg.)	Weight (g)*	Accessories
			External Diameter	Internal Diameter	Height			
CV-RLA-74X48-30R	● Red	2.2	74	48	19	30	95	CV-DF-RLA-74X48-30
CV-RLA-74X48-30B	● Blue	5.6	74	48	19	30	95	
CV-RLA-74X48-30W	○ White	5.3	74	48	19	30	95	
CV-RLA-100X70-30R	● Red	1.8	100	70	22	30	170	CV-DF-RLA-100X70-30
CV-RLA-100X70-30B	● Blue	8.7	100	70	22	30	170	
CV-RLA-100X70-30W	○ White	8.4	100	70	22	30	170	
CV-RLA-132X96-15R	● Red	2.5	132	96	22	15	280	CV-DF-RLA-132X96-15
CV-RLA-132X96-15B	● Blue	7.1	132	96	22	15	280	
CV-RLA-132X96-15W	○ White	7.2	132	96	22	15	280	

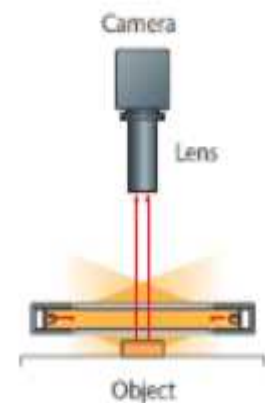
## Illumination Structure

### CV-RLA Series



illumination by ring surface from a Low Position

### CV-RLA-00 Series

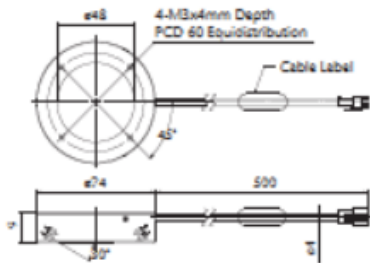


Model	Emitted Color	Power (W)	External Dimensions (mm)			Lighting Angle (Deg.)	Weight (g)*	Accessories
			External Diameter	Internal Diameter	Height			
CV-RLA-75X46-00R	● Red	0.5	75	46	10	0	70	
CV-RLA-75X46-00B	● Blue	2.5	75	46	10	0	70	
CV-RLA-75X46-00W	○ White	2.8	75	46	10	0	70	
CV-RLA-96X60-00R	● Red	0.7	96	60	10	0	110	
CV-RLA-96X60-00B	● Blue	3.1	96	60	10	0	110	
CV-RLA-96X60-00W	○ White	3.5	96	60	10	0	110	
CV-RLA-200X170-00R	● Red	2.0	200	170	10	0	160	
CV-RLA-200X170-00B	● Blue	5.9	200	170	10	0	160	
CV-RLA-200X170-00W	○ White	6.1	200	170	10	0	160	

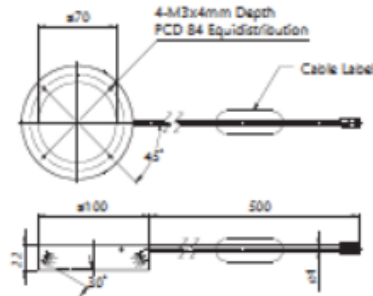
\* LED Controller on F.185

\* It is weighted 15g more in case "M12".

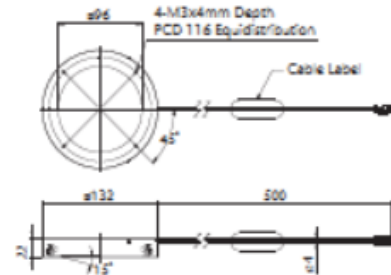
### CV-RLA-74X48-30R (B,W)



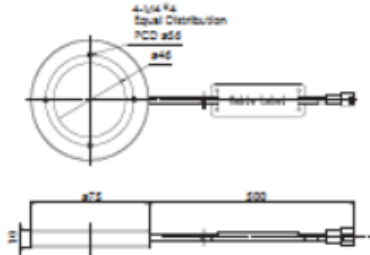
### CV-RLA-100X70-30R (B,W)



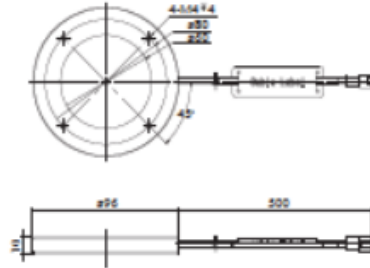
### CV-RLA-132X96-15R (B,W)



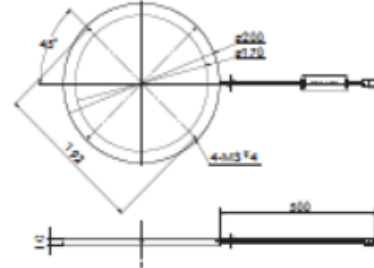
### CV-RLA-75X46-00R (B,W)



### CV-RLA-96X60-00R (B,W)

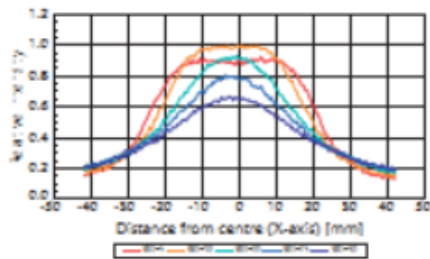


### CV-RLA-200X170-00R (B,W)

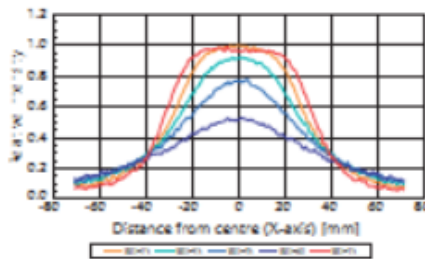


## Light Distribution Characteristics

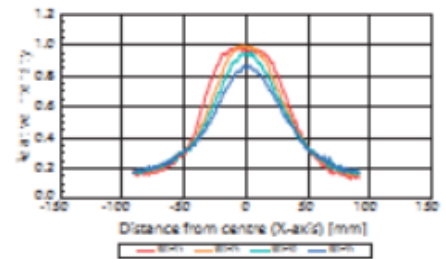
CV-RLA-74X48-30W



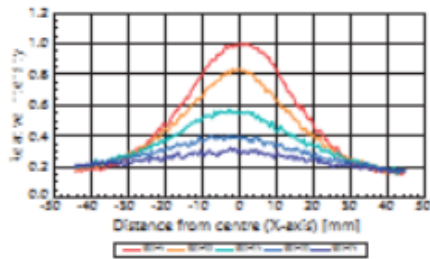
CV-RLA-100X70-30W



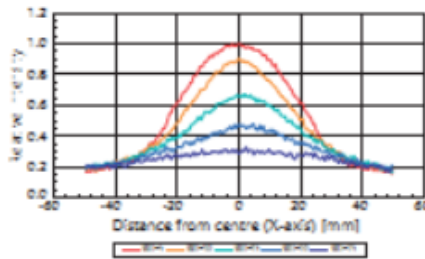
CV-RLA-132X96-15W



CV-RLA-75X46-00W



CV-RLA-96X60-00W



## Applications

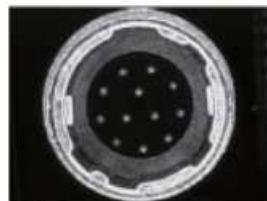
- Substrate and PCB positioning
- Chip component inspection
- LCD alignment
- Plastic container inspection
- Label inspection
- Mounter
- IC marking inspection, etc.

## Sample Images

CV-RLA Series



Chamfer Checking on Metal Ring



12-Pin Connector

CV-RLA-00 Series



Scratches on Glass Plate



CD Imprint Inspection



945 East 11<sup>th</sup> Avenue Tampa, FL 33605

Phone: (813) 984-0125

Contact: Sales@pyramidimaging.com

<https://pyramidimaging.com>