

# CLL

## Collimated Line Light Model: UX-CLL & MB-LL

Using Metaphase's proprietary optics, the Collimated Line Light works similar to a traditional line light but can project its light at a lower divergence angle. This helps keep a tight, structured beam of light at longer working distances, possibly many meters away, while delivering high intensity. This works great for applications where you can't have the light close to the object or web. This is useful for creating clearances for robotics, imaging high tunnel ceilings, creating distances from hot objects, or applications requiring precise backlight imaging. The Collimated Line Light is a great tool for any line scan or machine vision lighting application.



### FEATURES

- Proprietary Collimated Lens for Low Divergence angle illumination; great for maintaining a structured beam of light at longer working distances.
- Available in 5 inch (127 mm) increments from 5 inches (127mm) to 150 inches (3810 mm) (UX model only)
- Available in UL Style (UX) & Metabright (MB)
- The UX version has passive cooling (compressed air cooling ready) while the Metabright version has a smaller profile with active cooling (fans)
- High Uniformity: using Metaphase's unique diffuser technology, our Collimated Line Lights are great for Front and Back Lighting line scan applications.
- Built-in driver(s) provides consistent illumination output

### WAVELENGTH (nanometers)

Note: Multispectral & custom wavelengths available

W	White 6000K
R	Red 630 nm
G	Green 530 nm
B	Blue 470 nm
IR	Infrared 850
UVL	395 nm
UVS	365 nm

### SPECIFICATIONS/OPTIONS

Power source:	24 VDC
Cable:	10 foot (3.05 m) cable with flying leads
Housing:	Aluminum
Operating Temperature:	-30°C to 60°C
Illuminance:	1.6 million Lux (consult Metaphase for possible Higher intensity)
Intensity Control:	0-10V intensity control built in
Lifetime Hours:	75,000

## SPECIFICATIONS (continued)

Model	Model	Length	Model	Model	Length
MB-CLL206	UX-CLL209	5 in (12.7 cm)	MB-CLL1407	UX-CLL1409	65 in (165.1 cm)
MB-CLL306	UX-CLL309	10 (25.4 cm)	MB-CLL1507	UX-CLL1509	70 in (177.8 cm)
MB-CLL406	UX-CLL409	15 (38.1 cm)	MB-CLL1607	UX-CLL1609	75 in (190.5 cm)
MB-CLL506	UX-CLL509	20 (50.8 cm)	MB-CLL1707	UX-CLL1709	80 in (203.2 cm)
MB-CLL606	UX-CLL609	25 (63.5 cm)	MB-CLL1807	UX-CLL1809	85 in (215.9 cm)
MB-CLL706	UX-CLL709	30 (76.2 cm)	MB-CLL1907	UX-CLL1909	90 in (228.6 cm)
MB-CLL806	UX-CLL809	35 (88.9 cm)	MB-CLL2007	UX-CLL2009	95 in (241.3 cm)
MB-CLL907	UX-CLL909	40 (101.6 cm)	MB-CLL2107	UX-CLL2109	100 in (254 cm)
MB-CLL1007	UX-CLL1009	45 (114.3 cm)	MB-CLL2207	UX-CLL2209	105 in (266.7 cm)
MB-CLL1107	UX-CLL1109	50 (127.0 cm)	MB-CLL2307	UX-CLL2309	110 in (279.4 cm)
MB-CLL1207	UX-CLL1209	55 (139.7 cm)	MB-CLL2407	UX-CLL2409	115 in (292.1 cm)
MB-CLL1307	UX-CLL1309	60 (152.4 cm)	MB-CLL2507	UX-CLL2509	120 in (304.8 cm)

## APPLICATIONS

- Web inspection (foil, plastic film, PCBs, glass, paper, web converting, etc.)
- Geometric measurement of long targets
- Direct position measurement
- Printed circuit board inspection
- Tube or bottle inspection
- Quality control in food, chemicals and textile industries
- Detection of holes in highly transparent films (backlighting) and laminated glass
- Non-wovens
- Fabrics
- Solar cells
- Hot steel inspection
- Long working distance applications such as tunnels, rails, or ceiling inspections
- High precision, high accuracy measurement applications

## COMPLIANCE



## DRIVERS

- **24V** – for use with a standard 24V constant voltage power supply [**24**]
- **ULC-2** – for use with constant current controllers such as our ULC-2 Universal Controller [**U**]
- **ILS** – configure for strobing applications with power boost for increased intensity for rising and falling edge triggers [**ILS**]
- **Keyence** – compatible with Keyence light controllers such as the Keyence CA-DC21e [**KEY**]
- **Baumer** – compatible with Baumer VeriSens cameras
- **Cognex** – compatible with Cognex cameras