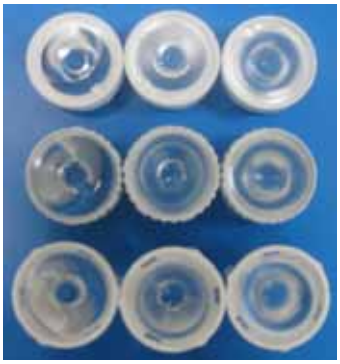
EVERLIGHT ELECTRONICS CO.LTD.

Technical Data Sheet
High Power LED Collimator (Preliminary)

LEN-A08 series



Feature

- Using precision injection molding optical grade acrylic plastics, and its' optical efficiency up to 90%.
- 5°,10°,15°,25°,30°,40°,15*30°,20*50°, 15*50° beam angle optional.
- Completely applying to EHP-AX08LS-DT01-P01 series.

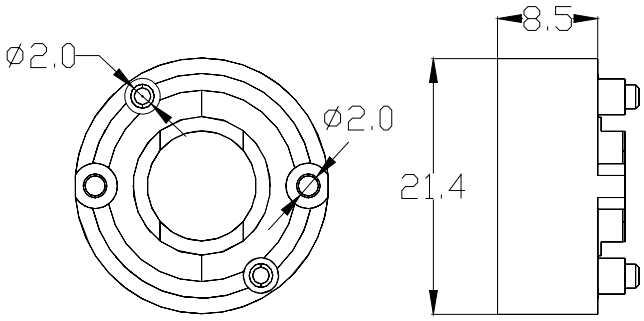
Applications

- Portable (Application field: flashlight, bicycle)
- Reading lights (Application field: car, bus, aircraft)
- Focus (Application field: spotlight, wall washer)
- Mini-accent / Decorative / Fiber Optics Alternative
- Undershelf / Task Lighting
- Indoor and Outdoor Commercial and Residential Architectural lighting

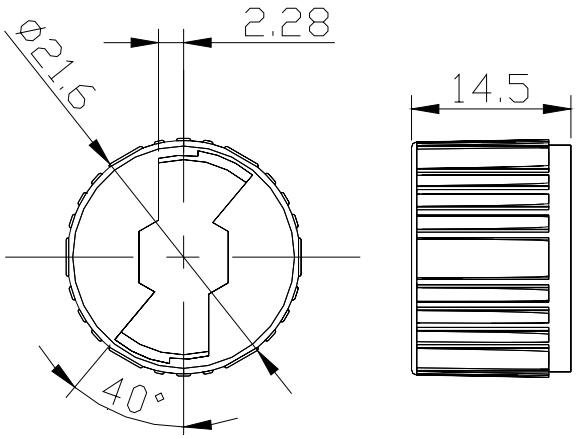
Materials

Items	Description
Housing	**Heat resistant polymer**
Lens	**Acrylic plastics**

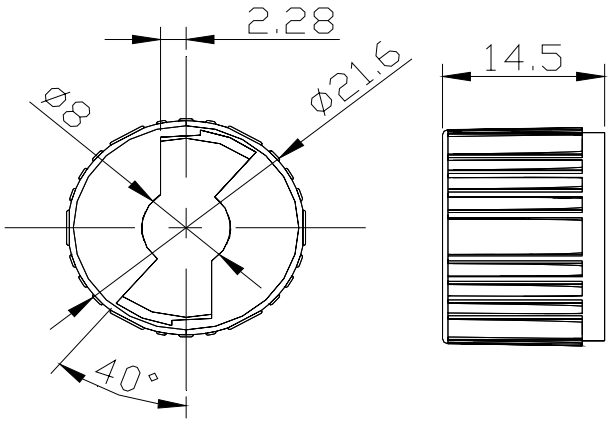
Collimator Dimensions



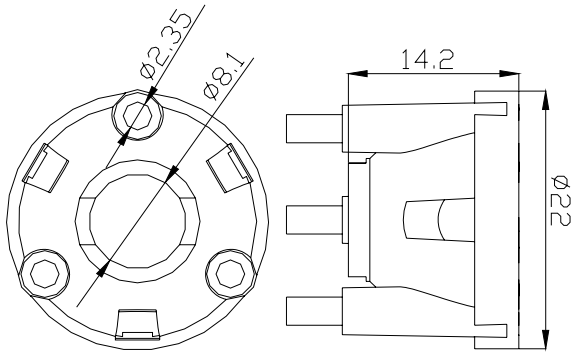
LEN-A08 01 series housing



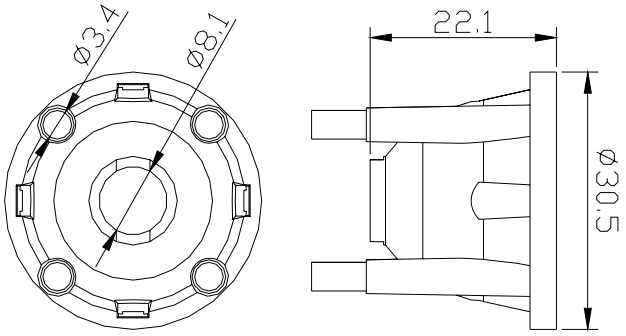
LEN-A08 02 series housing



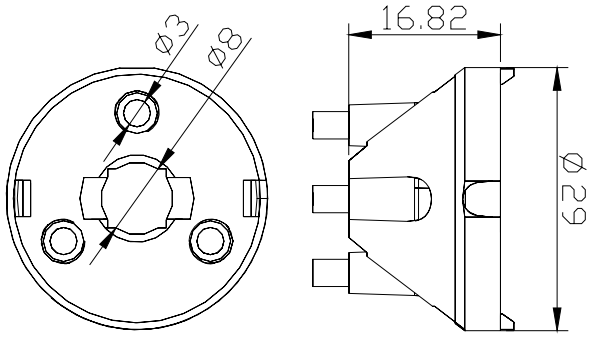
LEN-A08 03 series housing



LEN-A08 04 series housing



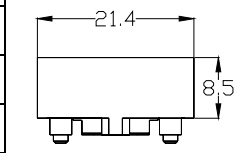
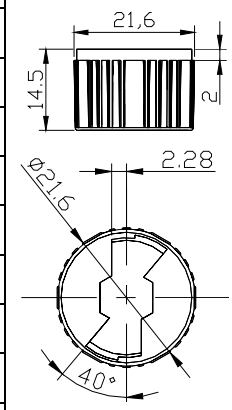
LEN-A08 05 series housing

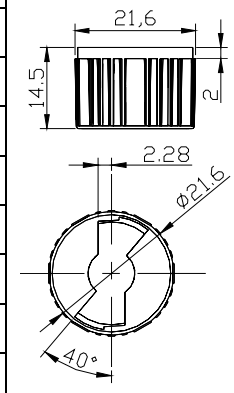


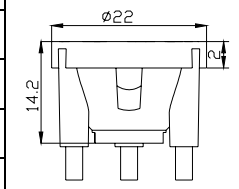
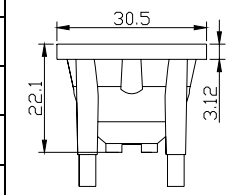
LEN-A08 06 series housing

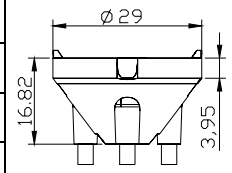
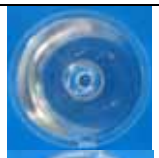
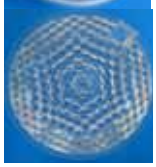
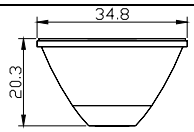
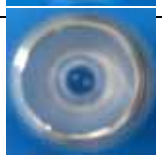
Notes:
1. Dimensions in millimeters and without tolerances are for reference only.
2. Don't clamp the collimator against the LED, because light source must be protected from any axial or lateral loads caused by the collimator and housing.
3. If the collimator is subjected to temperatures greater than 75°C, the plastic deformation of collimator may occur. Besides if the collimator exposure to solvents and adhesives, the collimator may be damaged. Any damage will affect the optical performance, so be careful to protect it.
4. Tolerances unless dimensions ±0.2mm

Order code

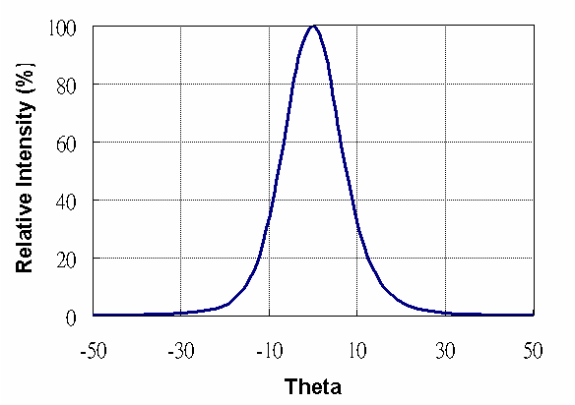
Code	Housing Size	Angle (degree)	Collimator	Housing Color		
				White	Clear	Back
LEN-A08-W01-A15		15		V		
LEN-A08-C01-A15					V	
LEN-A08-B01-A15						V
LEN-A08-W01-A25		25		V		
LEN-A08-C01-A25					V	
LEN-A08-B01-A25						V
LEN-A08-W01-A40		40		V		
LEN-A08-C01-A40					V	
LEN-A08-B01-A40						V
LEN-A08-W02-A15		15		V		
LEN-A08-C02-A15					V	
LEN-A08-B02-A15						V
LEN-A08-W02-A25		25		V		
LEN-A08-C02-A25					V	
LEN-A08-B02-A25						V
LEN-A08-W02-A40		40		V		
LEN-A08-C02-A40					V	
LEN-A08-B02-A40						V
LEN-A08-W02-A15*30		15*30		V		
LEN-A08-C02-A15*30					V	
LEN-A08-B02-A15*30						V
LEN-A08-W02-A20*50		20*50		V		
LEN-A08-C02-A20*50					V	
LEN-A08-B02-A20*50						V

LEN-A08-W03-A15		15		V		
LEN-A08-C03-A15					V	
LEN-A08-B03-A15						V
LEN-A08-W03-A25		25		V		
LEN-A08-C03-A25					V	
LEN-A08-B03-A25						V
LEN-A08-W03-A40		40		V		
LEN-A08-C03-A40					V	
LEN-A08-B03-A40						V
LEN-A08-W03-A15*30		15*30		V		
LEN-A08-C03-A15*30					V	
LEN-A08-B03-A15*30						V
LEN-A08-W03-A20*50		20*50		V		
LEN-A08-C03-A20*50					V	
LEN-A08-B03-A20*50						V

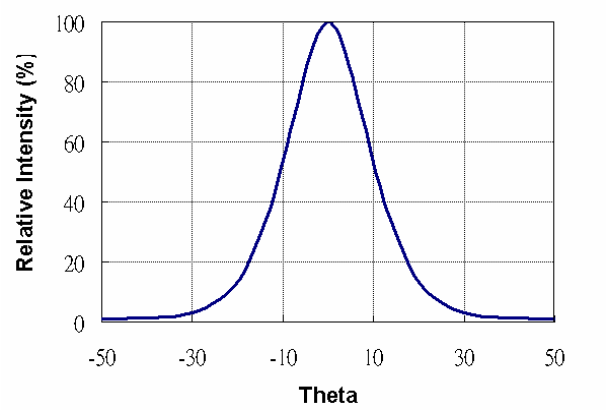
LEN-A08-W04-A15		15		V		
LEN-A08-C04-A15					V	
LEN-A08-B04-A15						V
LEN-A08-W04-A25		25		V		
LEN-A08-C04-A25					V	
LEN-A08-B04-A25						V
LEN-A08-W04-A40		40		V		
LEN-A08-C04-A40					V	
LEN-A08-B04-A40						V
LEN-A08-W04-A15*30		15*30		V		
LEN-A08-C04-A15*30					V	
LEN-A08-B04-A15*30						V
LEN-A08-W04-A20*50		20*50		V		
LEN-A08-C04-A20*50					V	
LEN-A08-B04-A20*50						V
LEN-A08-W05-A10		10		V		
LEN-A08-C05-A10					V	
LEN-A08-B05-A10						V
LEN-A08-W05-A30		30		V		
LEN-A08-C05-A30					V	
LEN-A08-B05-A30						V
LEN-A08-W05-A45		40		V		
LEN-A08-C05-A45					V	
LEN-A08-B05-A45						V
LEN-A08-W05-A15*30		15*30		V		
LEN-A08-C05-A15*30					V	
LEN-A08-B05-A15*30						V
LEN-A08-W05-A15*50		15*50		V		
LEN-A08-C05-A15*50					V	
LEN-A08-B05-A15*50						V

LEN-A08-W06-A10		10		V		
LEN-A08-C06-A10					V	
LEN-A08-B06-A10						V
LEN-A08-W06-A30		30		V		
LEN-A08-C06-A30					V	
LEN-A08-B06-A30						V
LEN-A08-W06-A45		45		V		
LEN-A08-C06-A45					V	
LEN-A08-B06-A45						V
LEN-A08-W06-A15*30		15*30		V		
LEN-A08-C06-A15*30					V	
LEN-A08-B06-A15*30						V
LEN-A08-W06-A15*50		15*50		V		
LEN-A08-C06-A15*50					V	
LEN-A08-B06-A15*50						V
LEN-A08-07-A5		5				

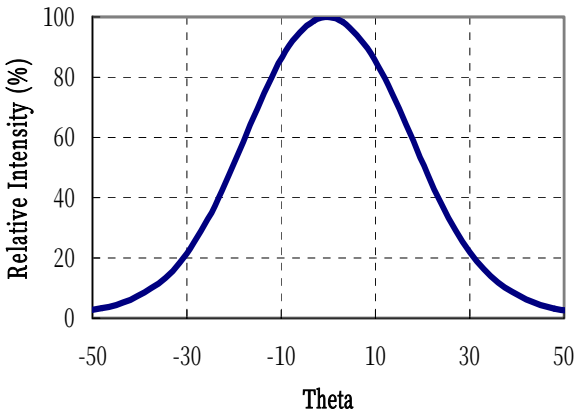
Lambertian Radiation Pattern[1]



LEN-A08-W01-A15



LEN-A08-W01-A25

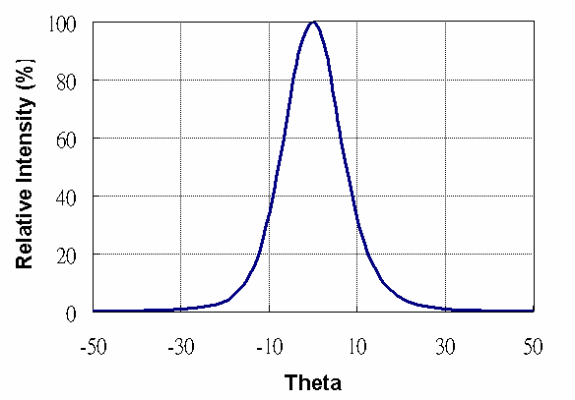


LEN-A08-W01-A40

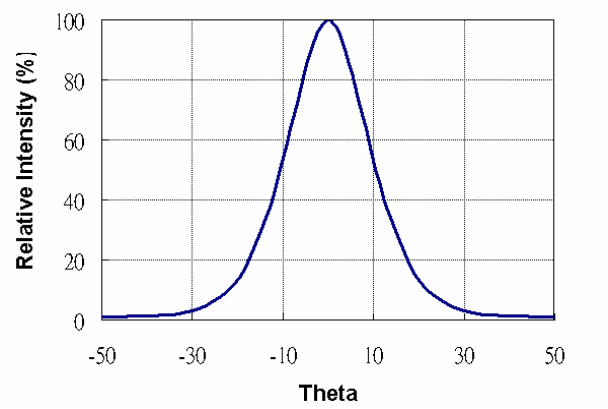
Notes:

1.The data is for collimator with EHP-AX08LS-DT01-P01 light source.

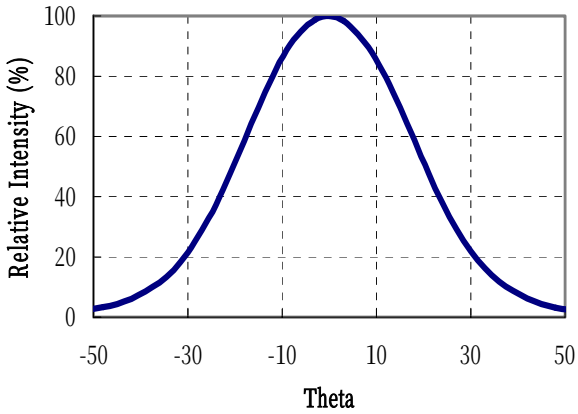
Lambertian Radiation Pattern[1]



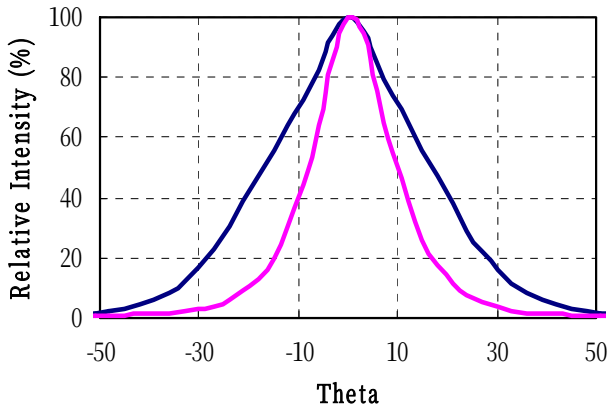
LEN-A08-W02-A15



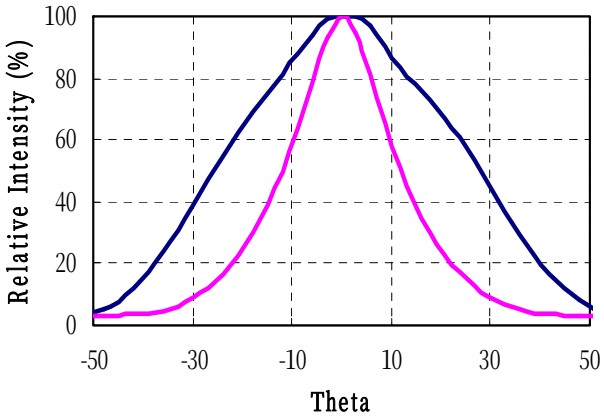
LEN-A08-W02-A25



LEN-A08-W02-A40



LEN-A08-W02-A15*30

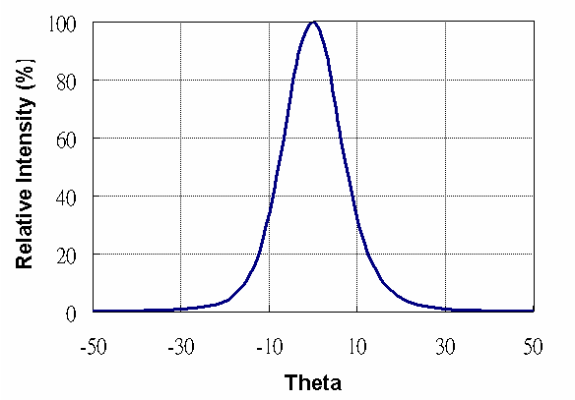


LEN-A08-W02-A20*50

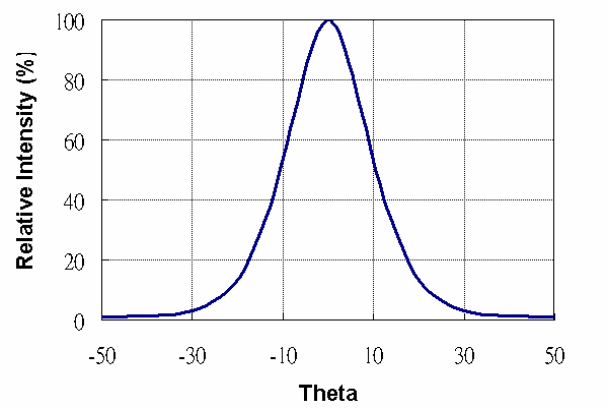
Notes:

1.The data is for collimator with EHP-AX08LS-DT01-P01 light source.

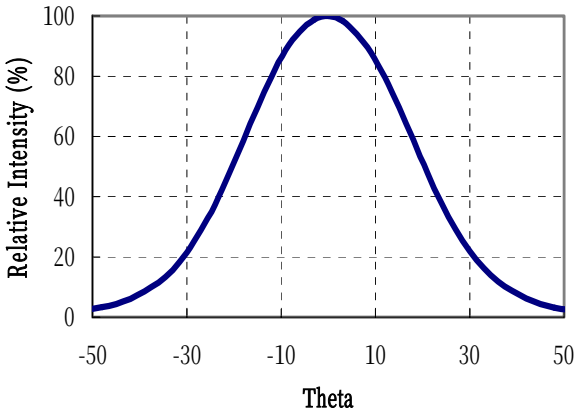
Lambertian Radiation Pattern[1]



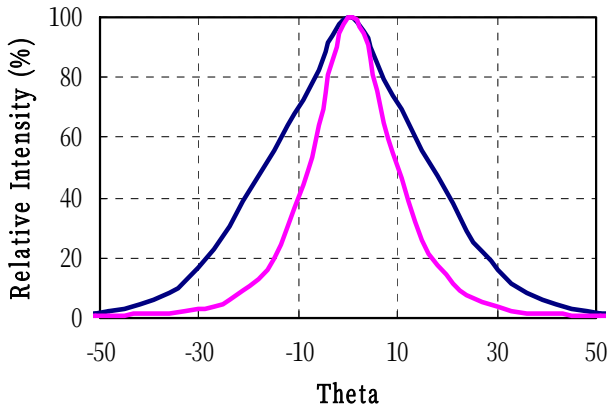
LEN-A08-W03-A15



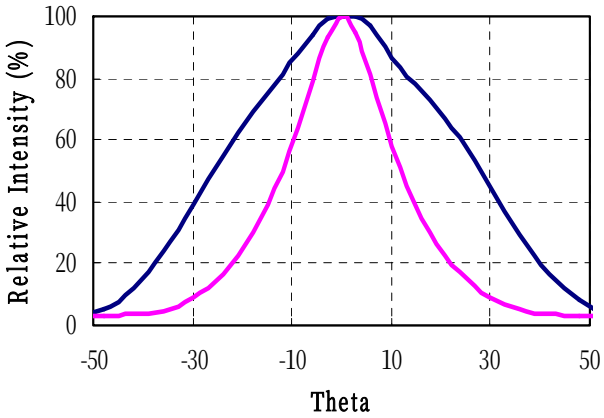
LEN-A08-W03-A25



LEN-A08-W03-A40



LEN-A08-W03-A15*30

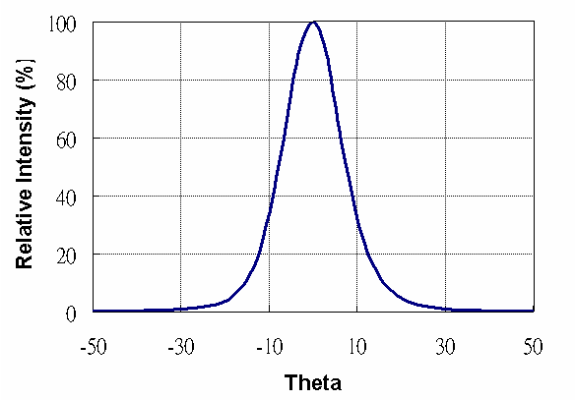


LEN-A08-W03-A20*50

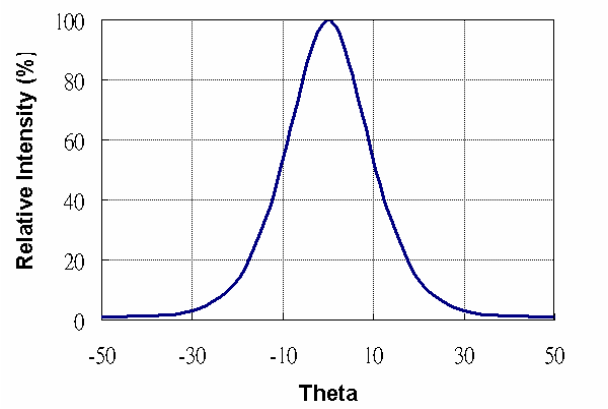
Notes:

1.The data is for collimator with EHP-AX08LS-DT01-P01 light source.

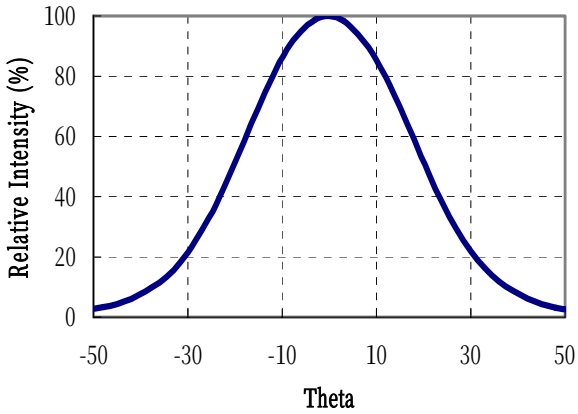
Lambertian Radiation Pattern[1]



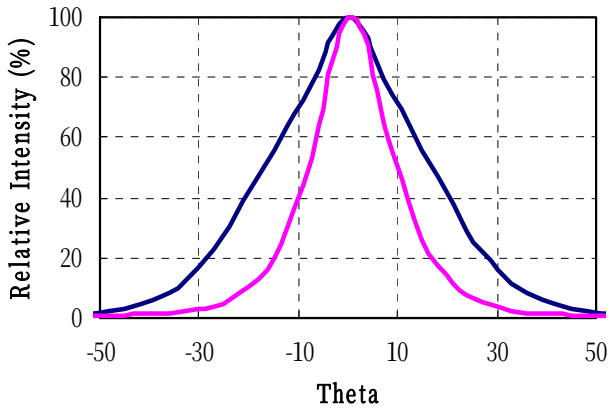
LEN-A08-W04-A15



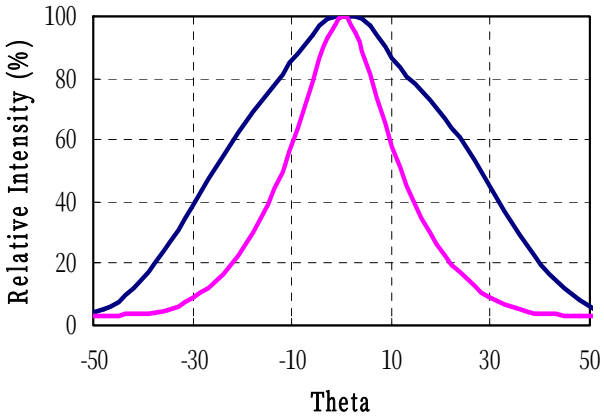
LEN-A08-W04-A25



LEN-A08-W04-A40



LEN-A08-W04-A15*30

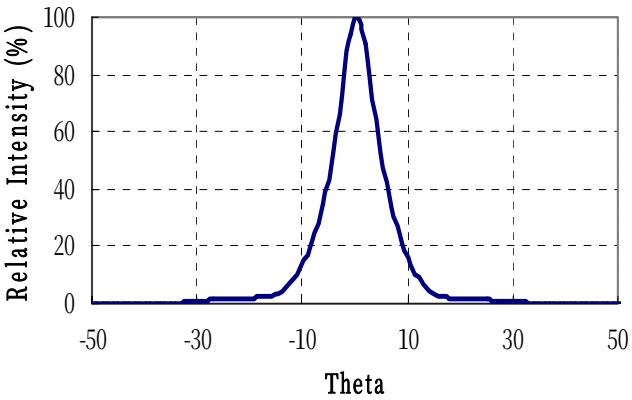


LEN-A08-W04-A20*50

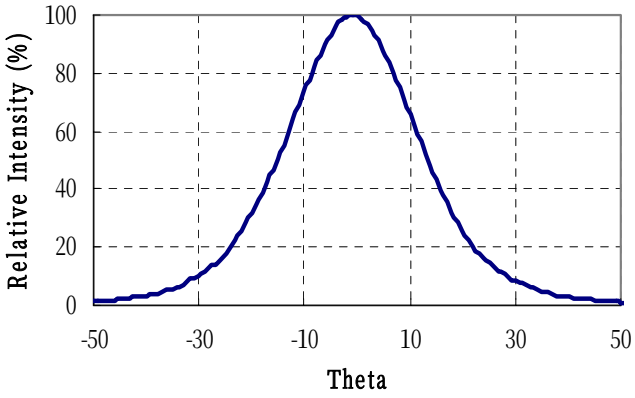
Notes:

1.The data is for collimator with EHP-AX08LS-DT01-P01 light source.

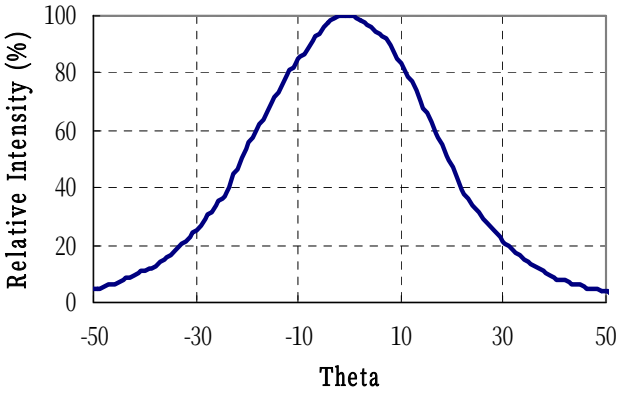
Lambertian Radiation Pattern[1]



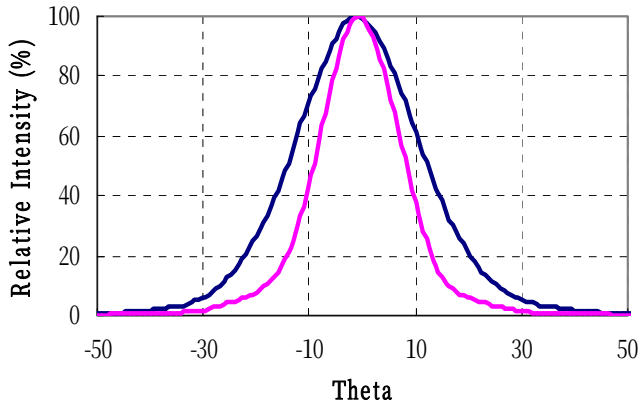
LEN-A08-W05-A10



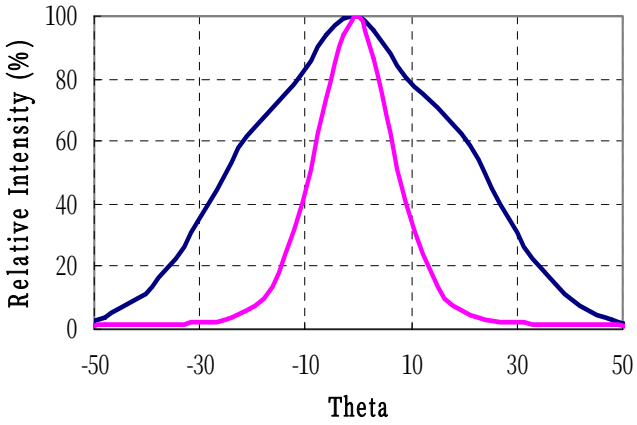
LEN-A08-W05-A30



LEN-A08-W05-A40



LEN-A08-W05-A15*30

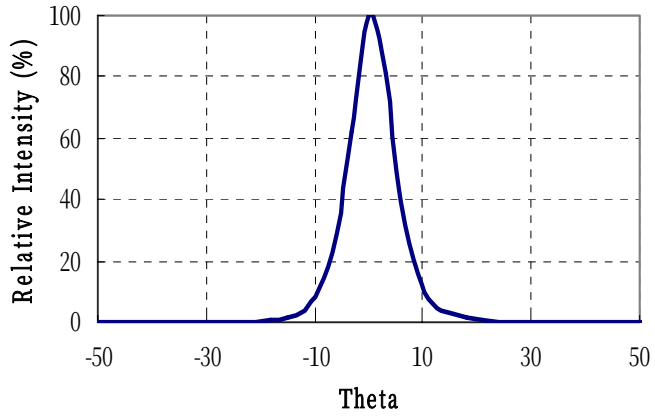


LEN-A08-W05-A15*50

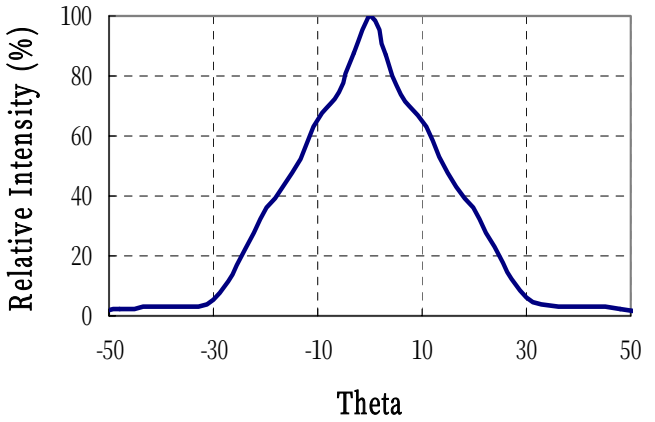
Notes:

1.The data is for collimator with EHP-AX08LS-DT01-P01 light source.

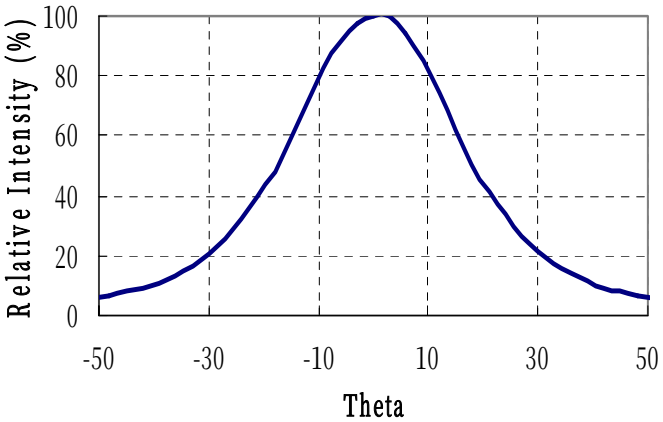
Lambertian Radiation Pattern[1]



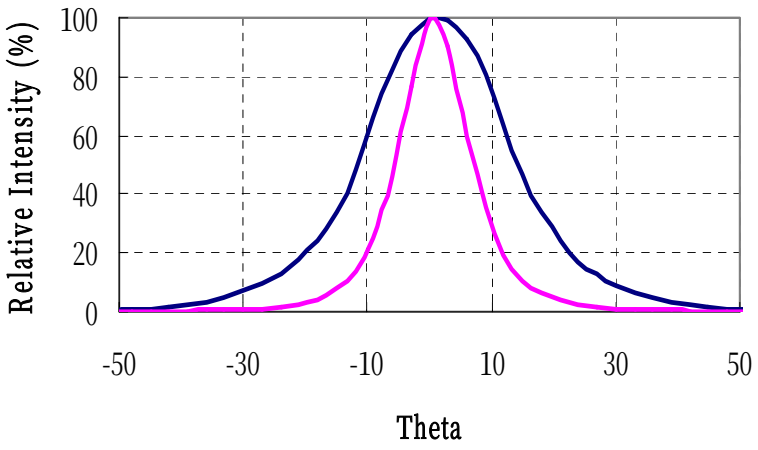
LEN-A08-W06-A10



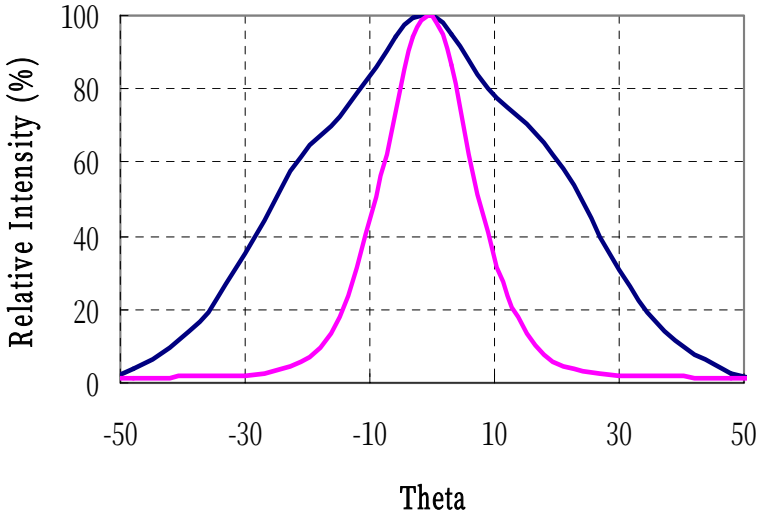
LEN-A08-W06-A30



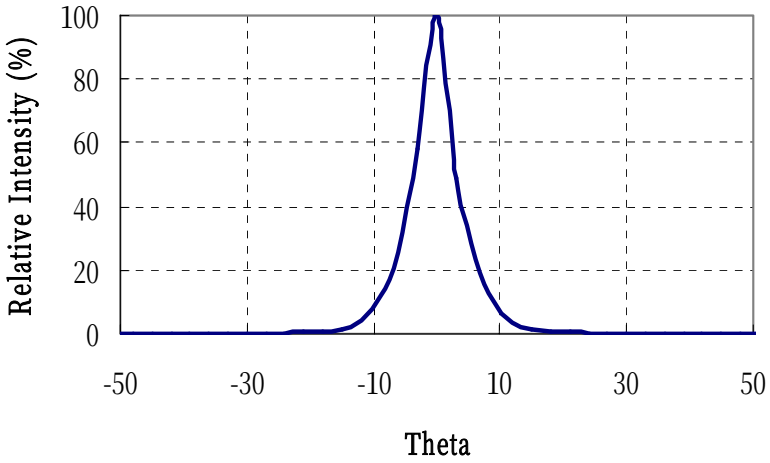
LEN-A08-W06-A40



LEN-A08-W06-A15*30



LEN-A08-W05-A15*50



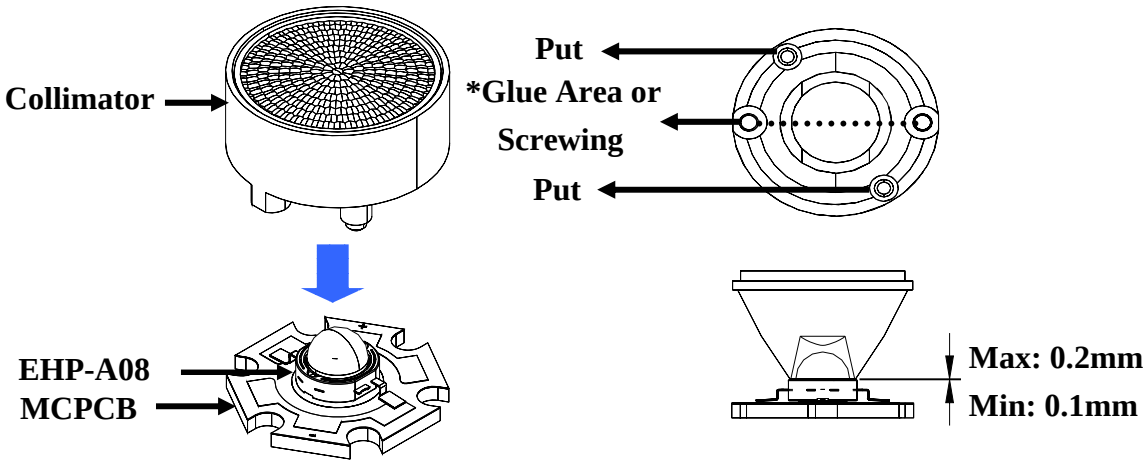
LEN-A08-W07-A5

Notes:

1.The data is for collimator with EHP-AX08LS-DT01-P01 light source.

Assembling Notes

☆LEN-A08-01 series assembling Notes



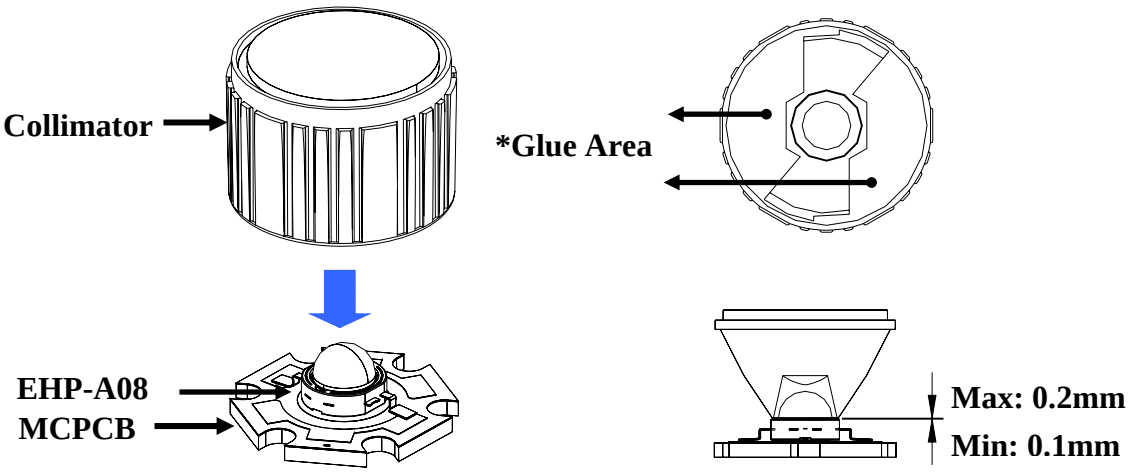
To assemble the collimator with the housing:

1. Align the collimator with the housing and press-fit the collimator into place.
2. Align the housing with the LED and glue[1] the pillars of housing onto MCPCB.
3. Put the pins into the hole of MCPCB.
4. Be handled with care to avoid damage to the LED lens.
5. Keep under 75℃ temperature operating collimator LED module.

Note:

1. Everlight recommends using a high-strength and fire-resistant adhesive. About the ability of glue, you could consult with Dow Corning, 3M …etc.

☆LEN-A08-02 series assembling Notes



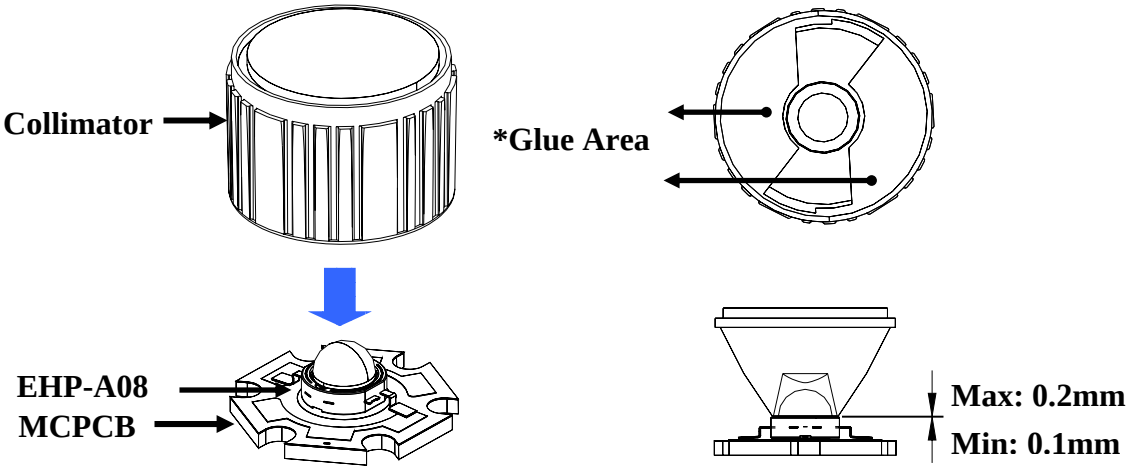
To assemble the collimator with the housing:

1. Align the collimator with the housing and press-fit the collimator into place.
2. Align the housing with the LED and glue[1] the housing base onto MCPCB.
3. Be handled with care to avoid damage to the LED lens.
4. Keep under 75℃ temperature operating collimator LED module.

Note:

1. Everlight recommends using a high-strength and fire-resistant adhesive. About the ability of glue, you could consult with Dow Corning, 3M …etc.

☆LEN-A08-03 series assembling Notes



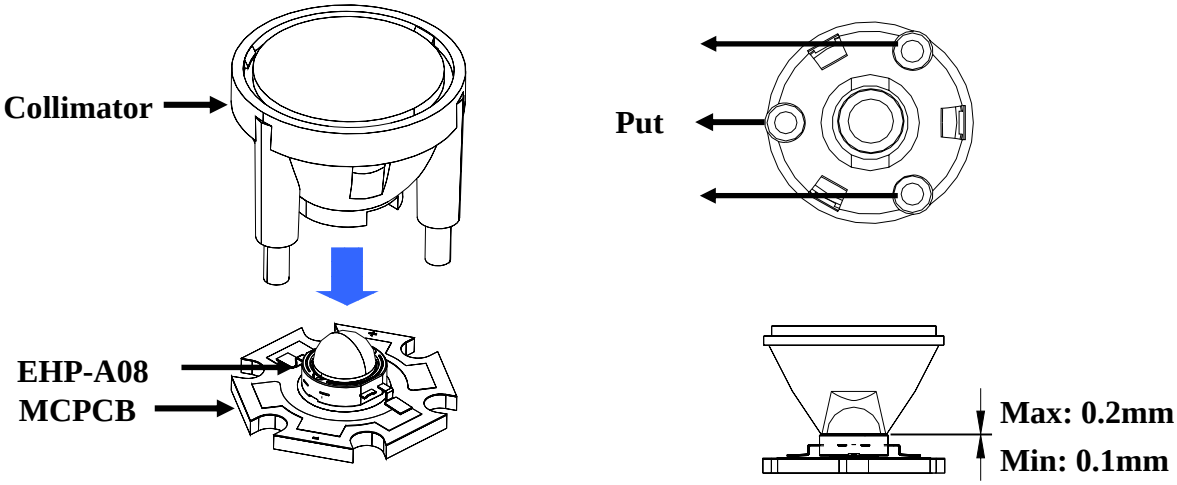
To assemble the collimator with the housing:

1. Align the collimator with the housing and press-fit the collimator into place.
2. Align the housing with the LED and glue[1] the housing base onto MCPCB.
3. Be handled with care to avoid damage to the LED lens.
4. Keep under 75℃ temperature operating collimator LED module.

Note:

1. Everlight recommends using a high-strength and fire-resistant adhesive. About the ability of glue, you could consult with Dow Corning, 3M …etc.

☆LEN-A08-04 series assembling Notes



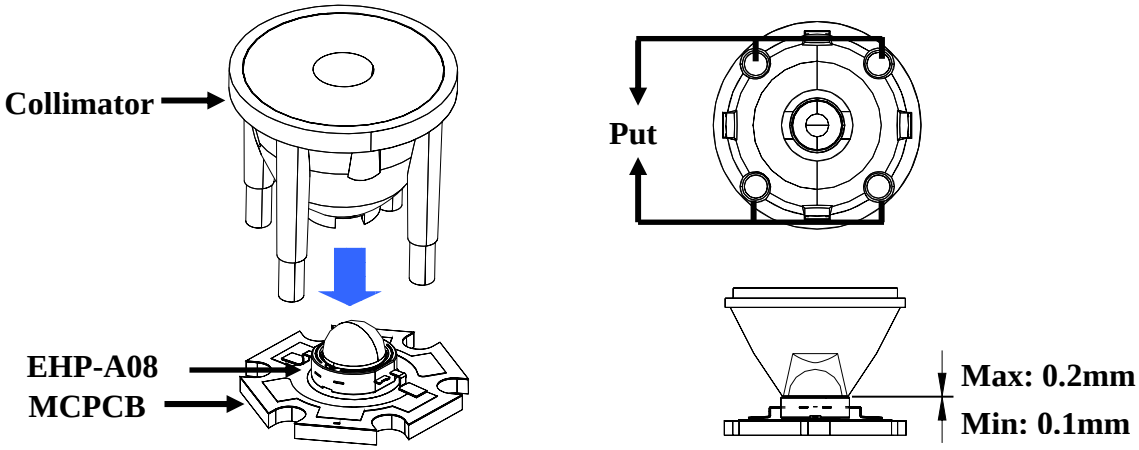
To assemble the collimator with the housing:

1. Align the collimator with the housing and press-fit the collimator into place.
2. Align the housing with the LED and glue[1] the housing base onto MCPCB.
3. Be handled with care to avoid damage to the LED lens.
4. Keep under 75℃ temperature operating collimator LED module.

Note:

1. Everlight recommends using a high-strength and fire-resistant adhesive. About the ability of glue, you could consult with Dow Corning, 3M …etc.

☆LEN-A08-05 series assembling Notes



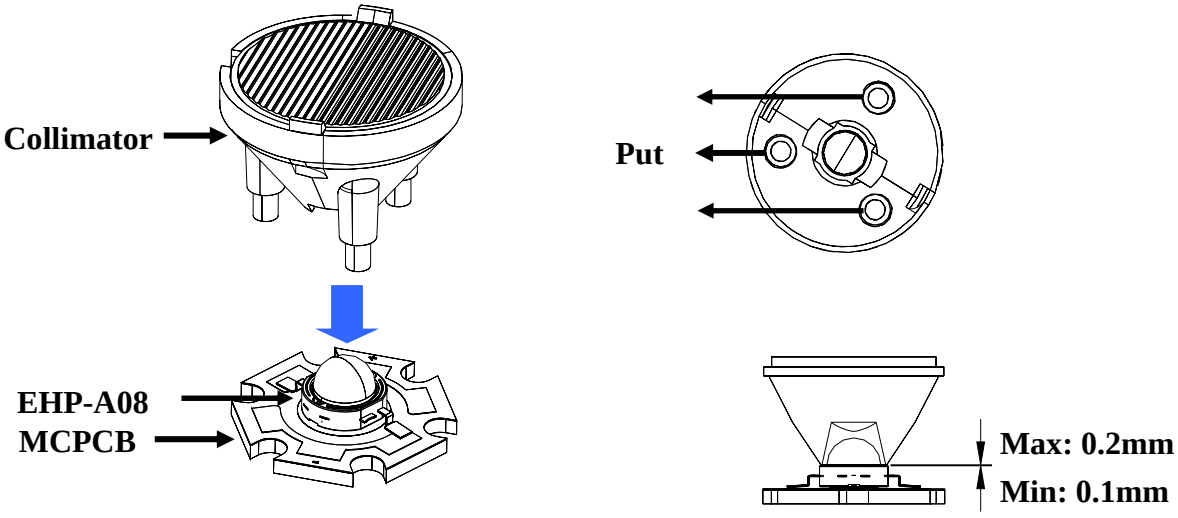
To assemble the collimator with the housing:

1. Align the collimator with the housing and press-fit the collimator into place.
2. Align the housing with the LED and glue[1] the housing base onto MCPCB.
3. Be handled with care to avoid damage to the LED lens.
4. Keep under 75℃ temperature operating collimator LED module.

Note:

1. Everlight recommends using a high-strength and fire-resistant adhesive. About the ability of glue, you could consult with Dow Corning, 3M …etc.

☆LEN-A08-06 series assembling Notes



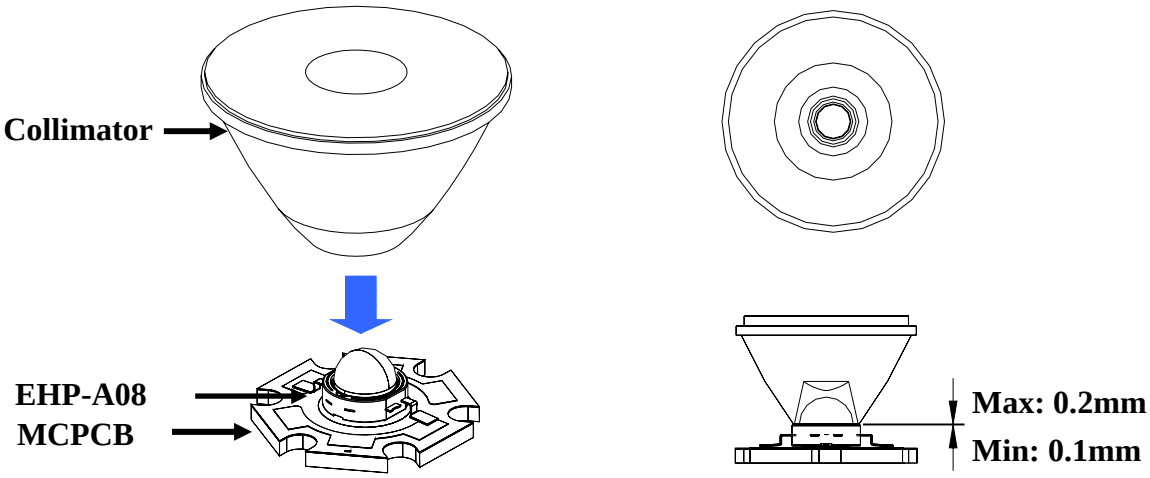
To assemble the collimator with the housing:

1. Align the collimator with the housing and press-fit the collimator into place.
2. Align the housing with the LED and glue[1] the housing base onto MCPCB.
3. Be handled with care to avoid damage to the LED lens.
4. Keep under 75℃ temperature operating collimator LED module.

Note:

1. Everlight recommends using a high-strength and fire-resistant adhesive. About the ability of glue, you could consult with Dow Corning, 3M …etc.

☆LEN-A08-07 series assembling Notes



To assemble the collimator with the housing:

1. Align the collimator with the housing and press-fit the collimator into place.
2. Align the housing with the LED and glue[1] the housing base onto MCPCB.
3. Be handled with care to avoid damage to the LED lens.
4. Keep under 75℃ temperature operating collimator LED module.

Note:

1. Everlight recommends using a high-strength and fire-resistant adhesive. About the ability of glue, you could consult with Dow Corning, 3M …etc.