



*ProLight Opto*  
Technology Corporation



**Collimators for  
Sextuplet LED Module type  
Technical Datasheet  
Version: 1.0**

## **Features**

- High Efficiency
- Works with ProLight Sextuplet LED Module type

## **Typical Applications**

- Lamp
- Reading lights
- Architectural lighting
- Street lights
- Decoration lights
- Down lights

## Collimators List

Collimator Size	Collimator P/N	Matched Holder P/N	White / Warm White LED			
			View angle ( $2\theta_{0.3}$ )	Beam angle ( $2\theta_{0.5}$ )	On axis efficiency (cd/lm)	X*
76mm	PG1C-6A20-AW		20°	15°	10.36	37.40
	PG1C-6A30-AW		30°	23°	5.90	21.30

### Notes:

1. The typical angle varies with LED due to different color chip and chip position tolerance.
2. The view angle ( **$2\theta_{0.3}$  is similar to the image by eye view**) is the full angle measured where the luminous intensity is 30% of the peak value.
3. The beam angle ( $2\theta_{0.5}$ ) is the full angle measured where the luminous intensity is 50% of the peak value.

\* X is the value that measurement of the on-axis lux of LED with lens divided by lux of LED

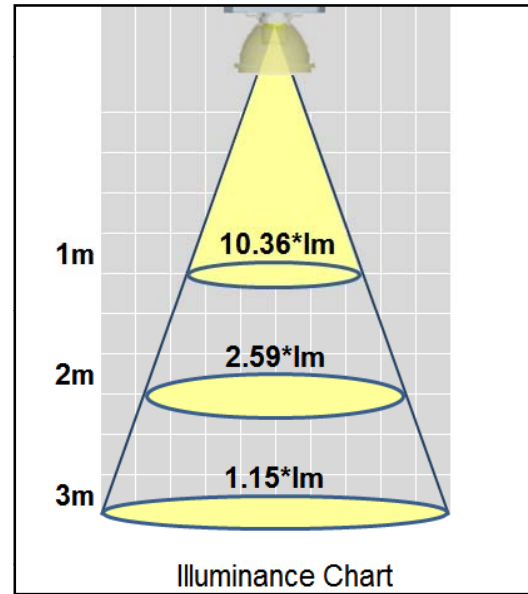
## General Characteristics:

Lens Material	Optical Grade PMMA
Holder Material	PC or ABS
Operating Temperature Range	-40 °C to +70 °C
Storage Temperature Range	-40 °C to +70 °C

## Usage and Maintenance:

1. Clean collimators with mild soap and water and a soft cloth.
2. Do not use any commercial cleaning solvents on collimators, like alcohol.
3. Please handle or install collimators with wearing gloves, skin oils may damage collimators or optical characteristic.

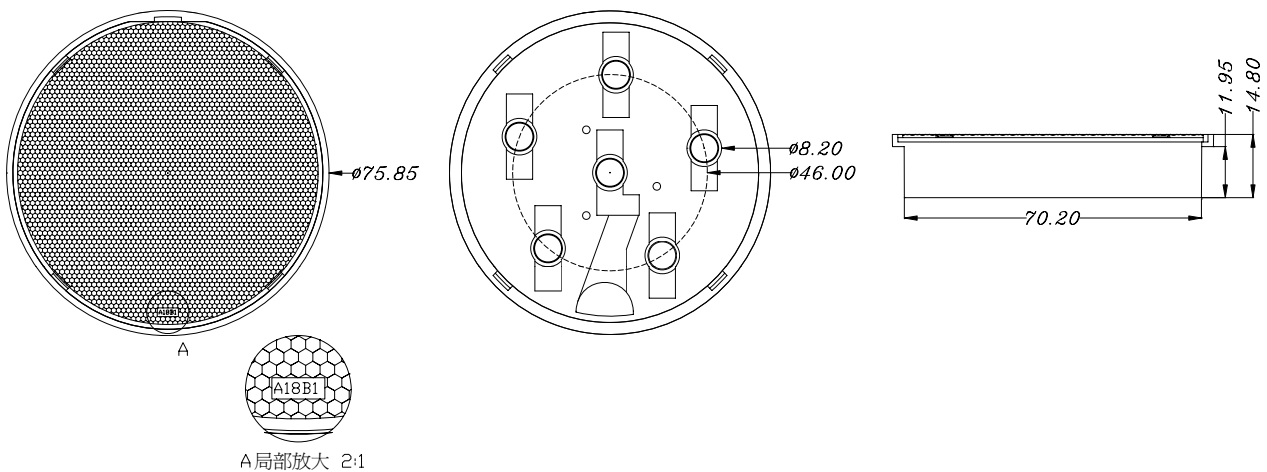
## Mechanical Dimensions and Illuminance Chart



Collimator P/N : PG1C-6A20-AW

View angle ( $2\theta_{0.3}$ ) :  $20^\circ$

Beam angle ( $2\theta_{0.5}$ ) :  $15^\circ$



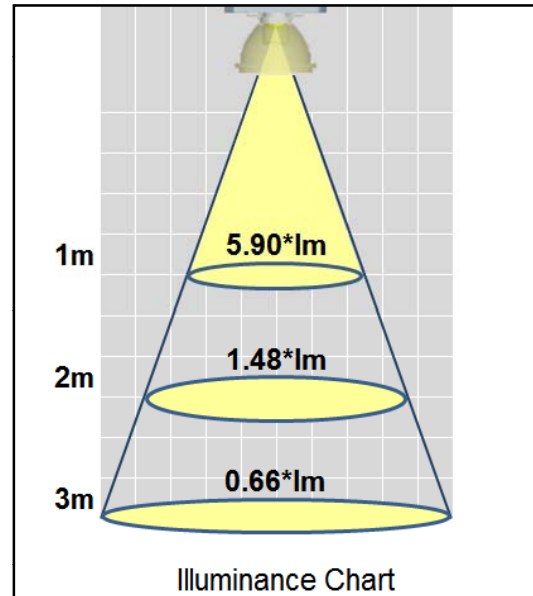
### Notes:

1. Tolerance is  $\pm 0.20$  mm.
2. Do not subject to temperatures greater than  $70^\circ\text{C}$  as plastic deformation may occur.  
Protect collimator against exposure to solvents and adhesives that are not compatible with it.  
Use care in handling the optic to avoid scratches or other damage that will effect the optical performance.
3. All dimensions in millimeters.
4. Drawing not to scale.

\*The appearance and specifications of the product may be modified for improvement without notice.

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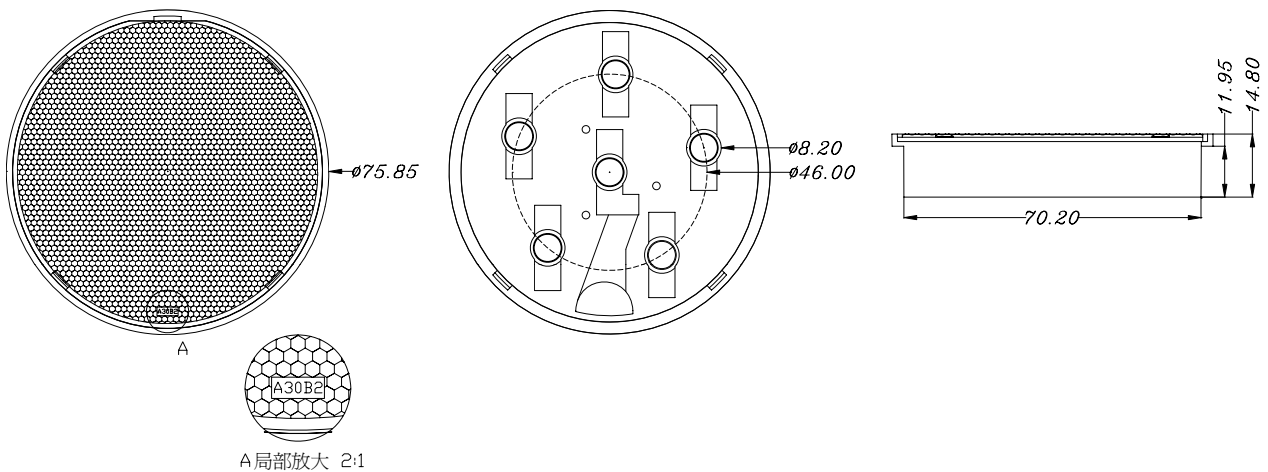
## Mechanical Dimensions and Illuminance Chart



Collimator P/N : PG1C-6A30-AW

View angle ( $2\theta_{0.3}$ ) :  $30^\circ$

Beam angle ( $2\theta_{0.5}$ ) :  $23^\circ$



### Notes:

1. Tolerance is  $\pm 0.20$  mm.
2. Do not subject to temperatures greater than  $70^\circ\text{C}$  as plastic deformation may occur.  
Protect collimator against exposure to solvents and adhesives that are not compatible with it.  
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