

Specification of NeoPac Light Engine Optics

Description

The high collection efficiency reaches 90% of the total flux emitted by the *NeoPac*[®] light engine.

Lens holder is white PC, and provide the proper alignment between the *NeoPac*[®] light engine and the lenses.

The applications for this emitter are mainly for general lighting and specific projection purposes. Materials used for this emitter are in compliant with RoHS environmental protection regulations.



General Characteristics

Lens Material	Optical Grade PMMA *
Holder Material	White PC
Operating Temperature range	- 40deg C / + 80deg C
Storage Temperature range	- 40deg C / + 80deg C

* Average transmittance in visible spectrum (400-700nm)>93%, as measured using 3mm thick Optical Grade PMMA.

Please note that flow lines and weld lines on the external surfaces of the lenses are acceptable if the optical performance of the lens is within the specification described in the section "OPTICAL CHARACTERISTICS"

IMPORTANT NOTE-Lenses handling and cleaning:

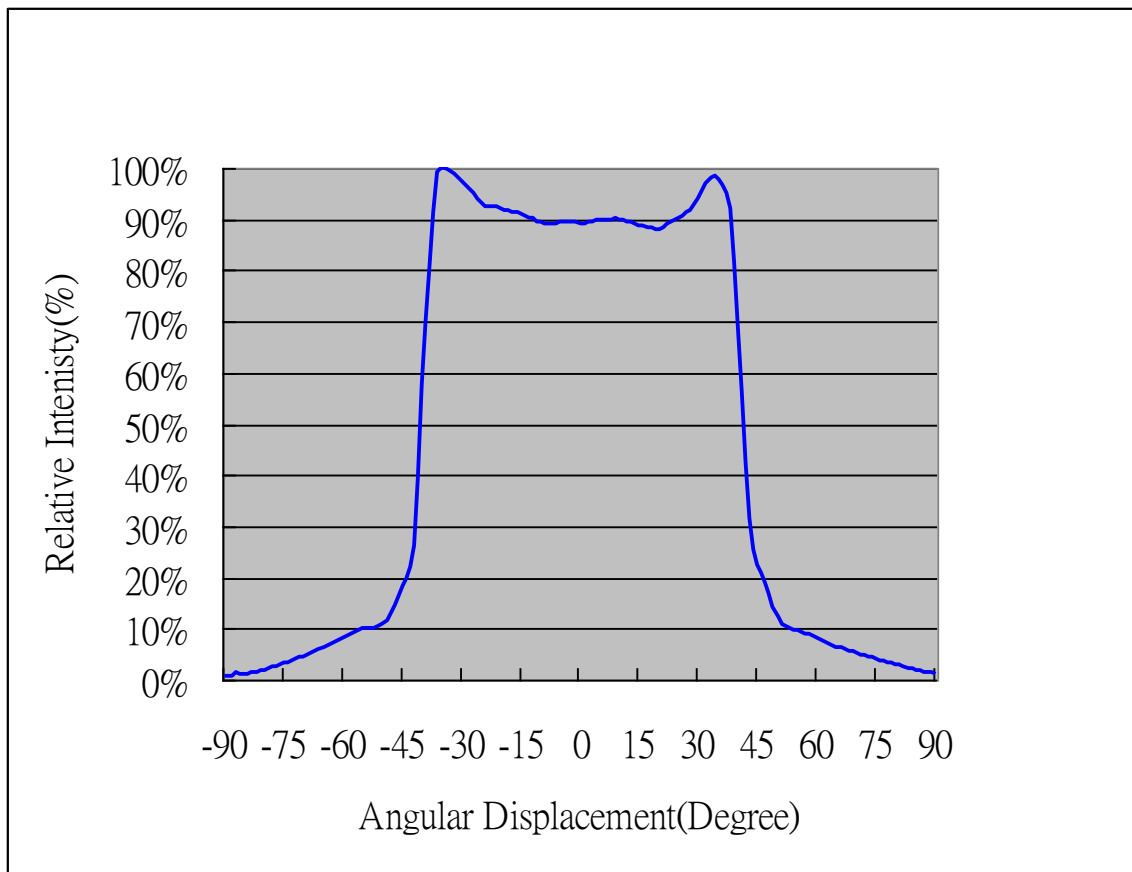
Handling: Always use gloves to handle lenses and/or handle the lenses only by the flange. Never touch the outside surfaces of the lenses with fingers; finger oils and contamination will absorb or refract light.

Cleaning: Clean lenses only if necessary. Use only soap and water to clean the surfaces and lenses. Never expose the lenses to alcohol, as it will damage the plastic.

Optical Characteristics :

Typical beam total divergence (degrees)		Blue / Green Emitter			Amber / Red Emitter			Warm / White Emitter					
		● ●			● ●			● ○					
Lens Module Number	Type of lens	RSx04	RSx06	RSx08	REx04	REx06	REx08	RSx04	RSx06	RSx08	CCx04	CCx06	CCx08
M33680010001	Wide beam	82	82	82	82	82	82	82	82	82	82	82	82
M33680010002	Wide beam	82	82	82	82	82	82	82	82	82	82	82	82

The typical divergence varies with LED color due to different chip size and chip position tolerance. The typical total divergence is the full angle measured where the luminous intensity is half of the peak value.

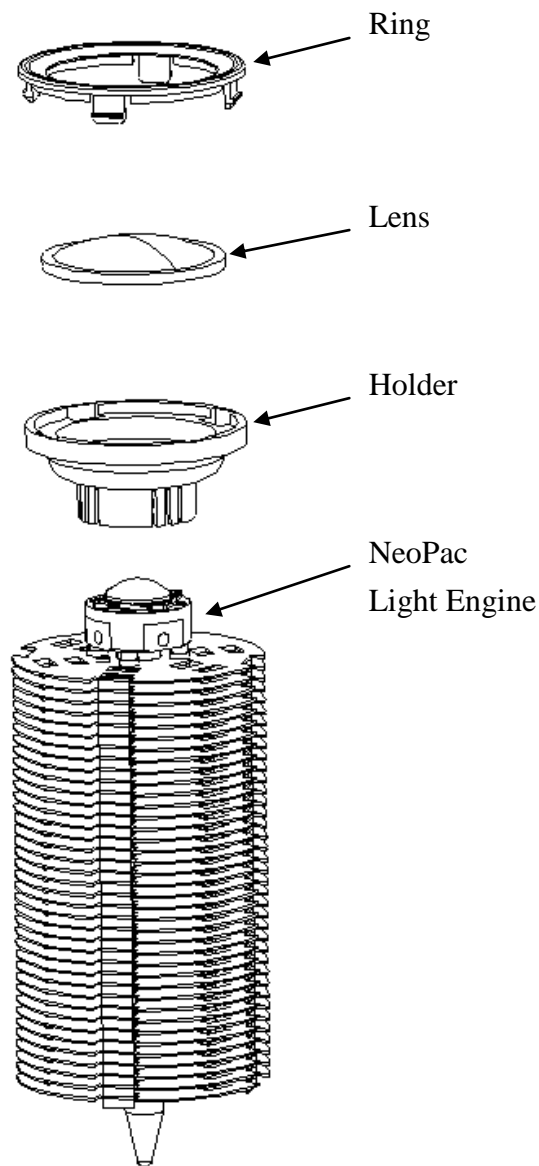


Mechanical Characteristics :

For best optical performance (shown above), correct mechanical position of the lens on the LED is critical.

To achieve correct lens position on the LED, the lens must be used a holder.

Lens + Holder assembly view:



Lens + Holder assembly dimensions on a Light Engine:

