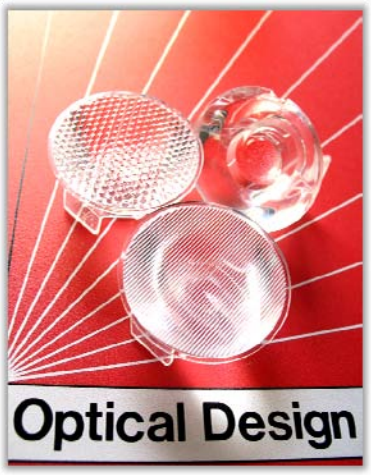
# [P7] P7 LENS SERIES-2

■ **Contents**






■ **The 'P7 Lens series-2' offers low profile lens especially designed for the Seoul Semiconductor LEDs**
**: P7 'W724C0'**

Power Z LED
SEOUL SEMICONDUCTOR

http://www.seoulsemicon.co.kr

***※ Korea Patent no. 10-0837573 & 10-0756174, issued June 4, 2008***

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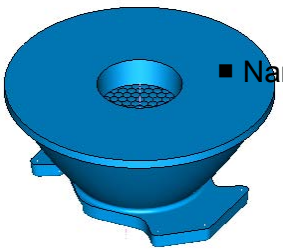
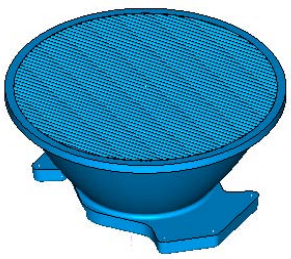
## 1. Lens Layout



■ Narrow Lens

■ Wide Lens



■ Elliptical Lens

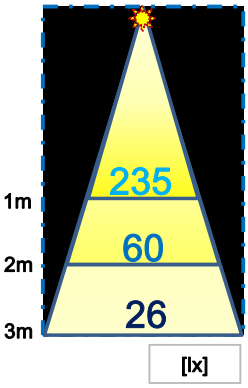
## 2. Lens Specification

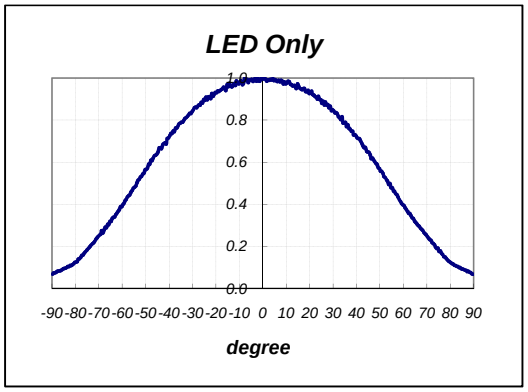
| Lens Type | Beam Angle | Beam Pattern | Components |
|---|---|---|---|
| Narrow Lens | 10 deg. | Circle | Single Lens |
| Wide Lens | 35 deg. | Circle | |
| Elliptical Lens | x 45deg. Y 15deg. | Elliptical | |

## 3. Measurements data (Illuminance, Distribution Graph, Photo)

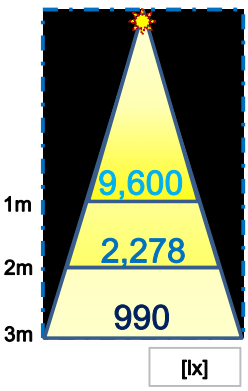
| Test Conditions : | LED : Seoul Semiconductor 'W724C0' (Luminous Flux = 700 Lumen) |
|---|---|
| | Room Luminous Intensity : 0 Lumen |
| | Room Temperature : 20℃ ± 1℃ |
| | LED temperature after 10 min : ~ 36℃ |

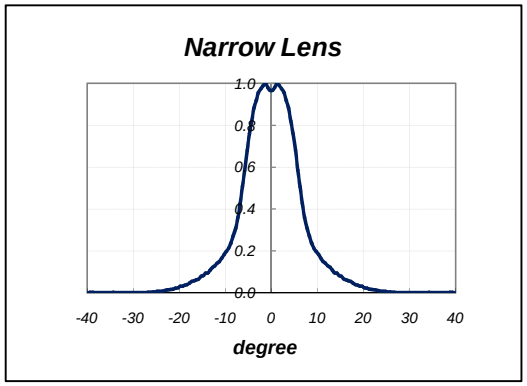
■ LED Only



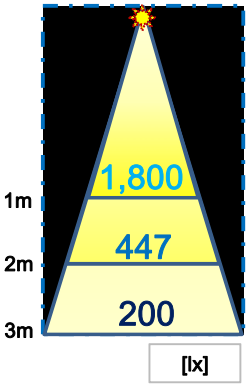



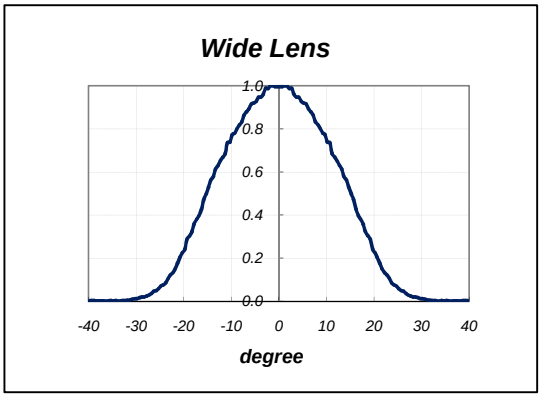

■ Narrow Lens



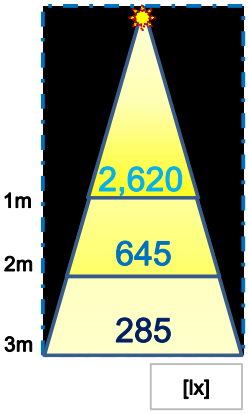



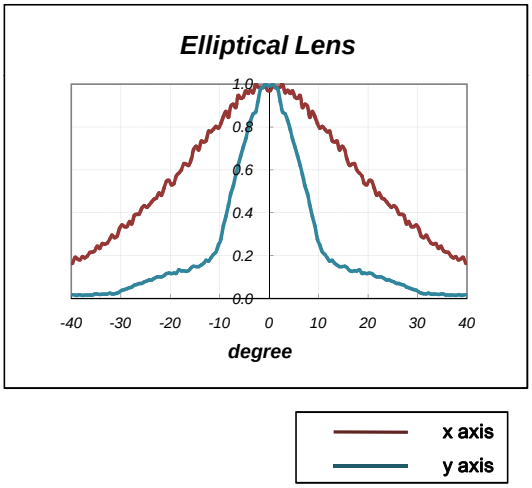

■ Wide Lens




■ Elliptical Lens

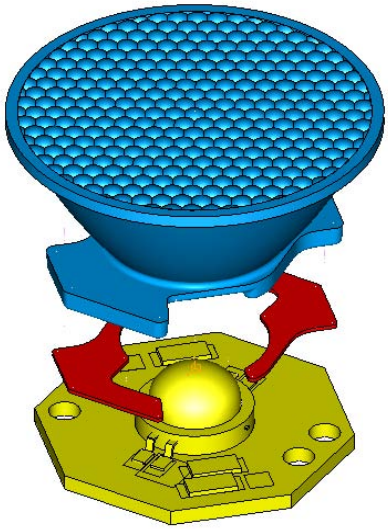



## 4. Lens Characteristics

| Parameter | Symbol | Value | Unit |
|---|---|---|---|
| Collimate Lens | PMMA (Optics) | - | - |
| Beam Lens Filter | PMMA (Optics) | - | - |
| Operating Temp. | $T_{opr}$ | -40 ~ +80 | ℃ |
| Storage Temp. | $T_{stg}$ | -40 ~ +80 | ℃ |

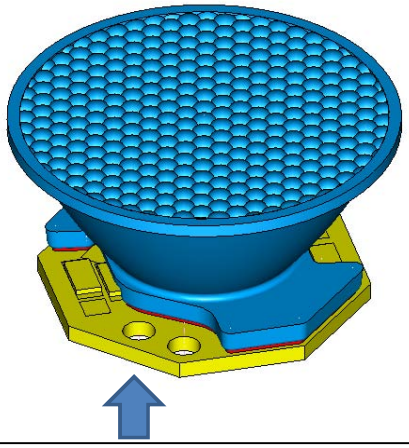
## 5. View of the Assmbly with the Collimate Lens & Beam Lens Filter



Lens
(Narrow / Wide / Elliptical)

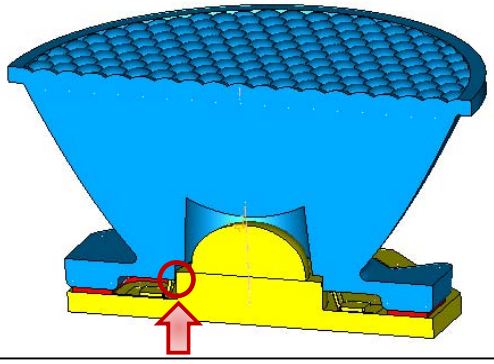
3M_Double Coated
Polyester Tapes

P7 LED

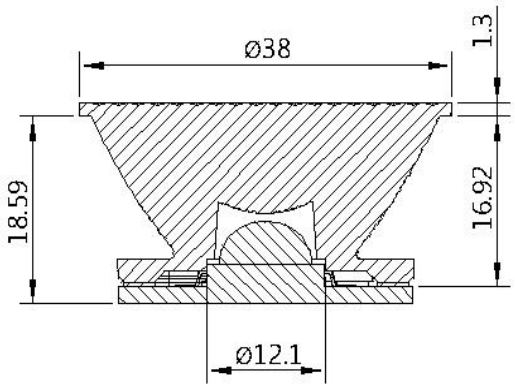


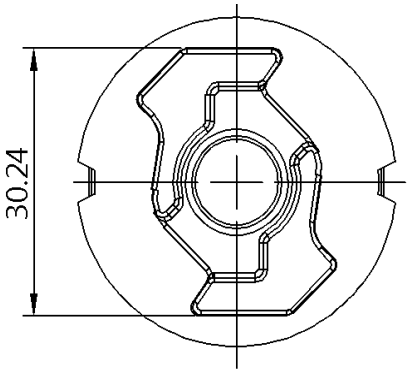
The bottom of the lens sits on the PCB of the P7 LEDs.

## 6. Sectional view & Dimensions



The function of this part is to align the Lens with LED chip



## 7. Handling of the Collimate Lens

- Do not store in dusty place.
- Do not expose under corrosive environment.
- Do not touch the lens surface with bare-hand.
- Do not dip in or apply to aggressive chemicals, and also.
- DO not wipe with cloth or paper soaked with aggressive chemicals.

■ 'P7 Lens Series-2' is ideal optical solution for P7 LEDs illumination application.