

# Yi 熠

## 5W Series

*“Yi [Yi] is the English translation for the Chinese word meaning Dazzling or Sparkling. This multi-chip package has the brightness to illuminate the space around it, a beacon in the dark.”*



### Introduction

The Yi series is a high power, 4-chip device with very low thermal resistance as a result of the ceramic substrate. The series is a surface-mount high-power device featuring high brightness combined with a compact size that is suitable for all kinds of lighting applications such as general illumination, spot, signal, industrial and commercial lighting.

### Features

- ◆ Soldering method: SMT
- ◆ Binning Parameters: Brightness, Forward Voltage, Wavelength and Chromaticity
- ◆ Moisture Sensitivity Level:1
- ◆ RoHS compliant
- ◆ Matches ANSI binning
- ◆ Reliability testing conforms to IESNA LM80 Lumen maintenance test method

### Applications

- ◆ General Lighting
- ◆ Indoor and Outdoor Lighting
- ◆ Retrofit Bulbs
- ◆ Decorative and Entertainment Lighting
- ◆ Signal Lighting/Beacon Lighting
- ◆ Exterior and Interior Automotive Illumination

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## Product Nomenclature

The product name is designated as below:

### ELYI– ABCDE – FGHIJ – V1234

Designation:

AB = min. luminous flux (lm) or radiation power (mW) performance

C = radiation pattern <sup>[1]</sup>

D = color <sup>[2]</sup>

E = power consumption <sup>[3]</sup>

F = reserved for future product offerings

G = internal code

H = packaging type <sup>[4]</sup>

IJ = internal code

V = forward voltage bin

1234 = color bin or CCT bin

#### Notes

1. Table of radiation patterns

| Symbol | Description |
|--------|-------------|
| 1      | Lambertian  |
| 2      | Others      |

2. Table of color offerings:

| Symbol | Color         | Color Temperature |
|--------|---------------|-------------------|
| C      | Cool-White    | 4745~7050K        |
| N      | Neutral-White | 3710~4745K        |
| M      | Warm-White    | 2580~3710K        |

3. Table of power consumptions:

| Symbol | Description |
|--------|-------------|
| 5      | 5W          |

4. Table of packaging types:

| Symbol | Description |
|--------|-------------|
| P      | Tape        |
| B      | Tube        |
| T      | Tray        |

## Absolute Maximum Ratings

| Parameter                    | Symbol      | Ratings                       | Unit   |
|------------------------------|-------------|-------------------------------|--------|
| Max. DC Forward Current (mA) | $I_F$       | 1000 <sup>[1]</sup>           | mA     |
| Max. Peak Pulse Current (mA) | $I_{Pulse}$ | 1400 <sup>[2]</sup>           | mA     |
| Reverse Voltage              | $V_R$       | Note 3                        | V      |
| Thermal Resistance           | $R_{th}$    | 6                             | °C/W   |
| Max. Junction Temperature    | $T_J$       | 125 <sup>[4]</sup>            | °C     |
| Operating Temperature        | $T_{Opr}$   | -40 ~ +100 <sup>[5] [6]</sup> | °C     |
| Storage Temperature          | $T_{Stg}$   | -40 ~ +100                    | °C     |
| Max. Soldering Temperature   | $T_{Sol}$   | 260                           | °C     |
| Max. Allowable Reflow Cycles | n/a         | 3                             | cycles |

### Notes:

- Maximum forward current is 1000mA (Thermal Pad=25°C).
- Duty cycle = 1/10@1KHz
- The Yi series LEDs are not designed for reverse bias operation.
- Maximum junction temperature is 125°C for White LEDs.
- Maximum Operating Temperature (Thermal Pad) is 100°C for White LEDs.
- Avoid operating Yi LEDs at maximum operating temperature exceeding 1 hour.

## JEDEC Moisture Sensitivity

| Level | Floor Life   |                 | Soak Requirements Standard |               |
|-------|--------------|-----------------|----------------------------|---------------|
|       | Time (hours) | Conditions      | Time (hours)               | Conditions    |
| 1     | Unlimited    | ≤ 30°C / 85% RH | 168 (+5/-0)                | 85°C / 85% RH |

## Luminous Flux Characteristics for the Yi series

| Color              | Part Number   | 5W                                       |                    |
|--------------------|---------------|------------------------------------------|--------------------|
|                    |               | Minimum Luminous Flux(lm) <sub>[1]</sub> | Drive Current (mA) |
| Cool White 6500    | ELYI – K52C5  | 325                                      | 700                |
|                    | ELYI – K62C5  | 350                                      |                    |
| Cool White 5700    | ELYI – K52C5  | 325                                      |                    |
|                    | ELYI – K62C5  | 350                                      |                    |
| Cool White 5000    | ELYI – K42C5  | 300                                      |                    |
|                    | *ELYI – K52C5 | 325                                      |                    |
| Neutral White 4500 | ELYI – K32N5  | 275                                      |                    |
|                    | ELYI – K42N5  | 300                                      |                    |
|                    | *ELYI – K52N5 | 325                                      |                    |
| Neutral White 4000 | ELYI – K32N5  | 275                                      |                    |
|                    | ELYI – K42N5  | 300                                      |                    |
|                    | *ELYI – K52N5 | 325                                      |                    |
| Warm White 3500    | ELYI – K22M5  | 250                                      |                    |
|                    | ELYI – K32M5  | 275                                      |                    |
|                    | *ELYI – K42M5 | 300                                      |                    |
| Warm White 3000    | ELYI – K22M5  | 250                                      |                    |
|                    | ELYI – K32M5  | 275                                      |                    |
|                    | *ELYI – K42M5 | 300                                      |                    |
| Warm White 2700    | ELYI – K12M5  | 225                                      |                    |
|                    | ELYI – K22M5  | 250                                      |                    |
|                    | *ELYI – K32M5 | 275                                      |                    |

\*Product lead-time of at least 8 weeks.

### Notes:

1. Luminous flux measurement tolerance:  $\pm 10\%$ .
2. The data of luminous flux measured at thermal pad=25°C
3. Typical luminous flux or light output performance is operated within the condition guided by this datasheet



## PN of the Yi series: White LEDs

### ELYI-xxxx5-xLxxx-xxxxx

The table below lists part numbers for the Everlight Yi series 5W White LED. All parts listed match ANSI binning standards. Bin offerings of 6500K, 5700K, and 5000K, 4500K, 4000K, 3500K, 3000K, and 2700K are listed and currently available. CRI is also listed with min 70 to 80. Typical view angle is **105°**. These clearly listed binning options allow for proper design and implementation into lighting applications. The Order Codes below are currently available White Yi LEDs.

For example: If you order product using P/N **ELYI-K62C5-0LPGS-P5700**, you will be specifying White, Yi series LEDs at 700mA are listed below

| Color Variant | Radiation Pattern | CRI | CCT                                 | Forward Voltage (V) | Minimum Luminous Flux (lm) |
|---------------|-------------------|-----|-------------------------------------|---------------------|----------------------------|
| Cool White    | Lambertian        | 70  | 57K-1 ~ 57K-2<br>~<br>57K-3 ~ 57K-4 | 6~8                 | 325                        |

| Color              | Order Code of ELYI           | Minimum Luminous Flux (lm) |     | CCT (K)     | Forward Voltage (V) | CRI (Min) |
|--------------------|------------------------------|----------------------------|-----|-------------|---------------------|-----------|
| Cool White<br>6500 | ELYI – K52C5 – 0LPGS – P6500 | K5                         | 325 | 65K-1~65K-4 | 6~8                 | 70        |
|                    |                              | K6                         | 350 |             |                     |           |
|                    |                              | K7                         | 375 |             |                     |           |
|                    |                              | K8                         | 400 |             |                     |           |
|                    | ELYI – K62C5– 0LPGS – P6500  | K6                         | 350 | 65K-1~65K-4 | 6~8                 | 70        |
|                    |                              | K7                         | 375 |             |                     |           |
|                    |                              | K8                         | 400 |             |                     |           |
|                    |                              | K9                         | 425 |             |                     |           |

#### Notes:

1. CRI measurement tolerance:  $\pm 2$

| Color              | Order Code of ELYI           | Minimum Luminous Flux (lm) |     | CCT (K)     | Forward Voltage (V) | CRI (Min) |
|--------------------|------------------------------|----------------------------|-----|-------------|---------------------|-----------|
| Cool White<br>5700 | ELYI – K52C5 – 0LPGS – P5700 | K5                         | 325 | 65K-1~65K-4 | 6~8                 | 70        |
|                    |                              | K6                         | 350 |             |                     |           |
|                    |                              | K7                         | 375 |             |                     |           |
|                    |                              | K8                         | 400 |             |                     |           |
|                    | ELYI – K62C5– 0LPGS – P5700  | K6                         | 350 | 65K-1~65K-4 | 6~8                 | 70        |
|                    |                              | K7                         | 375 |             |                     |           |
|                    |                              | K8                         | 400 |             |                     |           |
|                    |                              | K9                         | 425 |             |                     |           |
| Cool White<br>5000 | ELYI – K42C5– 0LPGS – P5000  | K4                         | 300 | 50K-1~50K-4 | 6~8                 | 70        |
|                    |                              | K5                         | 325 |             |                     |           |
|                    |                              | K6                         | 350 |             |                     |           |
|                    |                              | K7                         | 375 |             |                     |           |
|                    | ELYI – K52C5– 0LPGS – P5000  | K5                         | 325 | 50K-1~50K-4 | 6~8                 | 70        |
|                    |                              | K6                         | 350 |             |                     |           |
|                    |                              | K7                         | 375 |             |                     |           |
|                    |                              | K8                         | 400 |             |                     |           |

**Notes:**

- CRI measurement tolerance:  $\pm 2$

| Color              | Order Code of ELYI           | Minimum Luminous Flux (lm) |     | CCT (K)     | Forward Voltage (V) | CRI (Min) |
|--------------------|------------------------------|----------------------------|-----|-------------|---------------------|-----------|
| Neutral White 4500 | ELYI – K32N5– 0LPGS – P4500  | K3                         | 275 | 45K-1~45K-4 | 6~8                 | 70        |
|                    |                              | K4                         | 300 |             |                     |           |
|                    |                              | K5                         | 325 |             |                     |           |
|                    |                              | K6                         | 350 |             |                     |           |
|                    | ELYI – K42N5– 0LPGS – P4500  | K4                         | 300 | 45K-1~45K-4 | 6~8                 | 70        |
|                    |                              | K5                         | 325 |             |                     |           |
|                    |                              | K6                         | 350 |             |                     |           |
|                    |                              | K7                         | 375 |             |                     |           |
|                    | *ELYI – K52N5– 0LPGS – P4500 | K5                         | 325 | 45K-1~45K-4 | 6~8                 | 70        |
|                    |                              | K6                         | 350 |             |                     |           |
|                    |                              | K7                         | 375 |             |                     |           |
|                    |                              | K8                         | 400 |             |                     |           |
| Neutral White 4000 | ELYI – K32N5– 0LPGS – P4000  | K3                         | 275 | 40K-1~40K-4 | 6~8                 | 70        |
|                    |                              | K4                         | 300 |             |                     |           |
|                    |                              | K5                         | 325 |             |                     |           |
|                    |                              | K6                         | 350 |             |                     |           |
|                    | ELYI – K42N5– 0LPGS – P4000  | K4                         | 300 | 40K-1~40K-4 | 6~8                 | 70        |
|                    |                              | K5                         | 325 |             |                     |           |
|                    |                              | K6                         | 350 |             |                     |           |
|                    |                              | K7                         | 375 |             |                     |           |
|                    | *ELYI – K52N5– 0LPGS – P4000 | K5                         | 325 | 40K-1~40K-4 | 6~8                 | 70        |
|                    |                              | K6                         | 350 |             |                     |           |
|                    |                              | K7                         | 375 |             |                     |           |
|                    |                              | K8                         | 400 |             |                     |           |

\*Product lead- time of at least 8 weeks.

**Notes:**

1. CRI measurement tolerance:  $\pm 2$



| Color                                 | Order Code of ELYI           | Minimum Luminous Flux (lm) |     | CCT (K)     | Forward Voltage (V) | CRI (Min) |
|---------------------------------------|------------------------------|----------------------------|-----|-------------|---------------------|-----------|
| <div>Warm White</div> <div>3500</div> | ELYI – K22M5– 0LPGS – P3500  | K2                         | 250 | 35K-1~35K-4 | 6~8                 | 70        |
|                                       |                              | K3                         | 275 |             |                     |           |
|                                       |                              | K4                         | 300 |             |                     |           |
|                                       |                              | K5                         | 325 |             |                     |           |
|                                       | ELYI – K32M5– 0LPGS – P3500  | K3                         | 275 | 35K-1~35K-4 | 6~8                 | 70        |
|                                       |                              | K4                         | 300 |             |                     |           |
|                                       |                              | K5                         | 325 |             |                     |           |
|                                       |                              | K6                         | 350 |             |                     |           |
|                                       | *ELYI – K42M5– 0LPGS – P3500 | K4                         | 300 | 35K-1~35K-4 | 6~8                 | 70        |
|                                       |                              | K5                         | 325 |             |                     |           |
|                                       |                              | K6                         | 350 |             |                     |           |
|                                       |                              | K7                         | 375 |             |                     |           |
| <div>Warm White</div> <div>3000</div> | ELYI – K22M5– 0LPGS – P3000  | K2                         | 250 | 30K-1~30K-4 | 6~8                 | 70        |
|                                       |                              | K3                         | 275 |             |                     |           |
|                                       |                              | K4                         | 300 |             |                     |           |
|                                       |                              | K5                         | 325 |             |                     |           |
|                                       | ELYI – K32M5– 0LPGS – P3000  | K3                         | 275 | 30K-1~30K-4 | 6~8                 | 70        |
|                                       |                              | K4                         | 300 |             |                     |           |
|                                       |                              | K5                         | 325 |             |                     |           |
|                                       |                              | K6                         | 350 |             |                     |           |
|                                       | *ELYI – K42M5– 0LPGS – P3000 | K4                         | 300 | 30K-1~30K-4 | 6~8                 | 70        |
|                                       |                              | K5                         | 325 |             |                     |           |
|                                       |                              | K6                         | 350 |             |                     |           |
|                                       |                              | K7                         | 375 |             |                     |           |

\*Product lead- time of at least 8 weeks.

**Notes:**

1. CRI measurement tolerance:  $\pm 2$

| Color                                 | Order Code of ELYI            | Minimum Luminous Flux (lm) |     | CCT (K)     | Forward Voltage (V) | CRI (Min) |
|---------------------------------------|-------------------------------|----------------------------|-----|-------------|---------------------|-----------|
| <div>Warm White</div> <div>2700</div> | ELYI – K12M5 – 0LPGS – P2700  | K1                         | 225 | 27K-1~27K-4 | 6~8                 | 70        |
|                                       |                               | K2                         | 250 |             |                     |           |
|                                       |                               | K3                         | 275 |             |                     |           |
|                                       |                               | K4                         | 300 |             |                     |           |
|                                       | ELYI – K22M5 – 0LPGS – P2700  | K2                         | 250 | 27K-1~27K-4 | 6~8                 | 70        |
|                                       |                               | K3                         | 275 |             |                     |           |
|                                       |                               | K4                         | 300 |             |                     |           |
|                                       |                               | K5                         | 325 |             |                     |           |
|                                       | *ELYI – K32M5 – 0LPGS – P2700 | K3                         | 275 | 27K-1~27K-4 | 6~8                 | 70        |
|                                       |                               | K4                         | 300 |             |                     |           |
|                                       |                               | K5                         | 325 |             |                     |           |
|                                       |                               | K6                         | 350 |             |                     |           |

\*Product lead- time of at least 8 weeks.

**Notes:**

1. CRI measurement tolerance:  $\pm 2$



## PN of Yi High Luminous Series: White LEDs

### ELYI-xxxx5-xCxxx-xxxxx

The table below is a list of part numbers for the Everlight Yi 5W high luminous series White LED. All parts listed match ANSI binning standards. Bin offerings of 2700K to 6500K are listed and currently available. CRI is also listed with min 70 to 80. Typical view angle is **90°**. These clearly listed binning options allow for proper design and implementation into lighting applications. The Order Codes below are currently available White Yi LEDs.

For example: If you order product using P/N **ELYI-K62C5-0CPGS-P5700**, you will get White, Yi series LEDs at 700mA are listed below.

| Color Variant | Radiation Pattern | CRI | CCT                                 | Forward Voltage (V) | Minimum Luminous Flux (lm) |
|---------------|-------------------|-----|-------------------------------------|---------------------|----------------------------|
| Cool White    | Lambertian        | 70  | 57K-1 ~ 57K-2<br>~<br>57K-3 ~ 57K-4 | 6~8                 | 325                        |

| Color              | Order Code of ELYI          | Minimum Luminous Flux (lm) |     | CCT (K)     | Forward Voltage (V) | CRI (Min) |
|--------------------|-----------------------------|----------------------------|-----|-------------|---------------------|-----------|
| Cool White<br>6500 | ELYI – K62C5– 0CPGS – P6500 | K6                         | 350 | 65K-1~65K-4 | 6~8                 | 70        |
|                    |                             | K7                         | 375 |             |                     |           |
|                    |                             | K8                         | 400 |             |                     |           |
|                    |                             | K9                         | 425 |             |                     |           |
|                    | ELYI – K72C5– 0CPGS – P6500 | K7                         | 375 | 65K-1~65K-4 | 6~8                 | 70        |
|                    |                             | K8                         | 400 |             |                     |           |
|                    |                             | K9                         | 425 |             |                     |           |
|                    |                             | N1                         | 450 |             |                     |           |
| Cool White<br>5700 | ELYI – K62C5– 0CPGS – P5700 | K6                         | 350 | 57K-1~57K-4 | 6~8                 | 70        |
|                    |                             | K7                         | 375 |             |                     |           |
|                    |                             | K8                         | 400 |             |                     |           |
|                    |                             | K9                         | 425 |             |                     |           |
|                    | ELYI – K72C5– 0CPGS – P5700 | K7                         | 375 | 57K-1~57K-4 | 6~8                 | 70        |
|                    |                             | K8                         | 400 |             |                     |           |
|                    |                             | K9                         | 425 |             |                     |           |
|                    |                             | N1                         | 450 |             |                     |           |

**Notes:**

1. CRI measurement tolerance:  $\pm 2$

| Color                     | Order Code of ELYI          | Minimum Luminous Flux (lm) |     | CCT (K)     | Forward Voltage (V) | CRI (Min) |
|---------------------------|-----------------------------|----------------------------|-----|-------------|---------------------|-----------|
| <b>Cool White 5000</b>    | ELYI – K52C5– 0CPGS – P5000 | K5                         | 325 | 50K-1~50K-4 | 6~8                 | 70        |
|                           |                             | K6                         | 350 |             |                     |           |
|                           |                             | K7                         | 375 |             |                     |           |
|                           |                             | K8                         | 400 |             |                     |           |
|                           | ELYI – K62C5– 0CPGS – P5000 | K6                         | 350 | 50K-1~50K-4 | 6~8                 | 70        |
|                           |                             | K7                         | 375 |             |                     |           |
|                           |                             | K8                         | 400 |             |                     |           |
|                           |                             | K9                         | 425 |             |                     |           |
| <b>Neutral White 4500</b> | ELYI – K42N5– 0CPGS – P4500 | K4                         | 300 | 45K-1~45K-4 | 6~8                 | 70        |
|                           |                             | K5                         | 325 |             |                     |           |
|                           |                             | K6                         | 350 |             |                     |           |
|                           |                             | K7                         | 375 |             |                     |           |
|                           | ELYI – K52N5– 0CPGS – P4500 | K5                         | 325 | 45K-1~45K-4 | 6~8                 | 70        |
|                           |                             | K6                         | 350 |             |                     |           |
|                           |                             | K7                         | 375 |             |                     |           |
|                           |                             | K8                         | 400 |             |                     |           |
| <b>Neutral White 4000</b> | ELYI – K42N5– 0CPGS – P4000 | K4                         | 300 | 40K-1~40K-4 | 6~8                 | 70        |
|                           |                             | K5                         | 325 |             |                     |           |
|                           |                             | K6                         | 350 |             |                     |           |
|                           |                             | K7                         | 375 |             |                     |           |
|                           | ELYI – K52N5– 0CPGS – P4000 | K5                         | 325 | 40K-1~40K-4 | 6~8                 | 70        |
|                           |                             | K6                         | 350 |             |                     |           |
|                           |                             | K7                         | 375 |             |                     |           |
|                           |                             | K8                         | 400 |             |                     |           |

**Notes:**

1. CRI measurement tolerance:  $\pm 2$

| Color              | Order Code of ELYI          | Minimum Luminous Flux (lm) |     | CCT (K)     | Forward Voltage (V) | CRI (Min) |
|--------------------|-----------------------------|----------------------------|-----|-------------|---------------------|-----------|
| Warm White<br>3500 | ELYI – K32M5– 0CPGS – P3500 | K3                         | 275 | 35K-1~35K-4 | 6~8                 | 70        |
|                    |                             | K4                         | 300 |             |                     |           |
|                    |                             | K5                         | 325 |             |                     |           |
|                    |                             | K6                         | 350 |             |                     |           |
|                    | ELYI – K42M5– 0CPGS – P3500 | K4                         | 300 | 35K-1~35K-4 | 6~8                 | 70        |
|                    |                             | K5                         | 325 |             |                     |           |
|                    |                             | K6                         | 350 |             |                     |           |
|                    |                             | K7                         | 375 |             |                     |           |
| Warm White<br>3000 | ELYI – K32M5– 0CPGS – P3000 | K3                         | 275 | 30K-1~30K-4 | 6~8                 | 70        |
|                    |                             | K4                         | 300 |             |                     |           |
|                    |                             | K5                         | 325 |             |                     |           |
|                    |                             | K6                         | 350 |             |                     |           |
|                    | ELYI – K42M5– 0CPGS – P3000 | K4                         | 300 | 30K-1~30K-4 | 6~8                 | 70        |
|                    |                             | K5                         | 325 |             |                     |           |
|                    |                             | K6                         | 350 |             |                     |           |
|                    |                             | K7                         | 375 |             |                     |           |
| Warm White<br>2700 | ELYI – K22M5– 0CPGS – P2700 | K2                         | 250 | 27K-1~27K-4 | 6~8                 | 70        |
|                    |                             | K3                         | 275 |             |                     |           |
|                    |                             | K4                         | 300 |             |                     |           |
|                    |                             | K5                         | 325 |             |                     |           |
|                    | ELYI – K32M5– 0CPGS – P2700 | K3                         | 275 | 27K-1~27K-4 | 6~8                 | 70        |
|                    |                             | K4                         | 300 |             |                     |           |
|                    |                             | K5                         | 325 |             |                     |           |
|                    |                             | K6                         | 350 |             |                     |           |

**Notes:**

1. CRI measurement tolerance:  $\pm 2$

## Product Binning

### Luminous Flux Bins

| Group | Bin | Minimum                  | Maximum                  |
|-------|-----|--------------------------|--------------------------|
|       |     | Photometric<br>Flux (lm) | Photometric<br>Flux (lm) |
|       |     |                          |                          |
| E     | 1   | 4                        | 5                        |
|       | 2   | 5                        | 6                        |
|       | 3   | 6                        | 8                        |
|       | 4   | 8                        | 10                       |
|       | 5   | 10                       | 13                       |
|       | 6   | 13                       | 17                       |
|       | 7   | 17                       | 20                       |
|       | 8   | 20                       | 23                       |
|       | 9   | 23                       | 27                       |
| F     | 1   | 27                       | 33                       |
|       | 2   | 33                       | 39                       |
|       | 3   | 39                       | 45                       |
|       | 4   | 45                       | 52                       |
|       | 5   | 52                       | 60                       |
|       | 6   | 60                       | 70                       |
|       | 7   | 70                       | 80                       |
|       | 8   | 80                       | 90                       |
|       | 9   | 90                       | 100                      |

| Group | Bin | Minimum                  | Maximum                  |
|-------|-----|--------------------------|--------------------------|
|       |     | Photometric<br>Flux (lm) | Photometric<br>Flux (lm) |
|       |     |                          |                          |
| K     | 1   | 225                      | 250                      |
|       | 2   | 250                      | 275                      |
|       | 3   | 275                      | 300                      |
|       | 4   | 300                      | 325                      |
|       | 5   | 325                      | 350                      |
|       | 6   | 350                      | 375                      |
|       | 7   | 375                      | 400                      |
|       | 8   | 400                      | 425                      |
|       | 9   | 425                      | 450                      |
| N     | 1   | 450                      | 475                      |
|       | 2   | 475                      | 500                      |
|       | 3   | 500                      | 525                      |
|       | 4   | 525                      | 550                      |
|       | 5   | 550                      | 575                      |
|       | 6   | 575                      | 600                      |
|       | 7   | 600                      | 625                      |
|       | 8   | 625                      | 650                      |
|       | 9   | 650                      | 675                      |

### Luminous Flux Bins

| Group | Bin | Minimum<br>Photometric<br>Flux (lm) | Maximum<br>Photometric<br>Flux (lm) |
|-------|-----|-------------------------------------|-------------------------------------|
| J     | 1   | 100                                 | 110                                 |
|       | 2   | 110                                 | 120                                 |
|       | 3   | 120                                 | 130                                 |
|       | 4   | 130                                 | 140                                 |
|       | 5   | 140                                 | 150                                 |
|       | 6   | 150                                 | 160                                 |
|       | 7   | 160                                 | 180                                 |
|       | 8   | 180                                 | 200                                 |
|       | 9   | 200                                 | 225                                 |

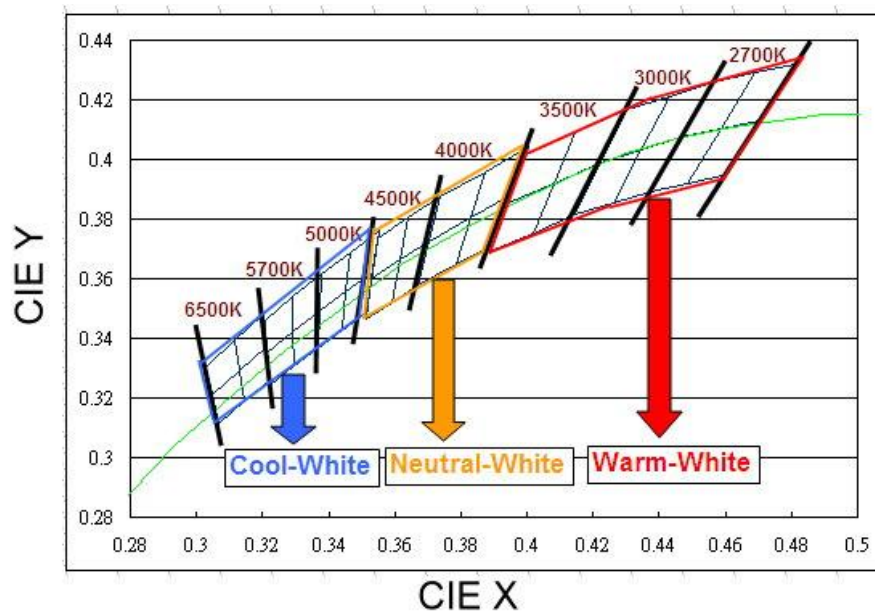
| Group | Bin | Minimum<br>Photometric<br>Flux (lm) | Maximum<br>Photometric<br>Flux (lm) |
|-------|-----|-------------------------------------|-------------------------------------|
| P     | 1   | 675                                 | 700                                 |
|       | 2   | 700                                 | 725                                 |
|       | 3   | 725                                 | 750                                 |
|       | 4   | 750                                 | 775                                 |
|       | 5   | 775                                 | 800                                 |
|       | 6   | 800                                 | 850                                 |
|       | 7   | 850                                 | 900                                 |
|       | 8   | 900                                 | 950                                 |
|       | 9   | 950                                 | 1000                                |
| S     | 1   | 1000                                | 1100                                |
|       | 2   | 1100                                | 1200                                |
|       | 3   | 1200                                | 1300                                |
|       | 4   | 1300                                | 1400                                |
|       | 5   | 1400                                | 1600                                |
|       | 6   | 1600                                | 1800                                |
|       | 7   | 1800                                | 2000                                |

**Note:**

1. Currently available brightness bins for White LEDs are highlighted and bolded.



## White Bin Structure

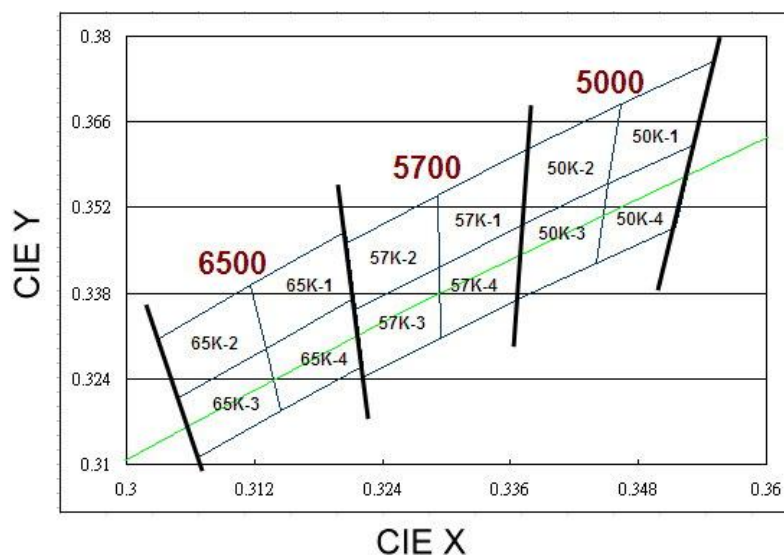


Chromaticity specification defined by ANSI

### Notes:

1. The CCT range of Cool-White varies from 4745K to 7050K.
2. The CCT range of Neutral-White varies from 3710K to 4745K.
3. The CCT range of Warm-White varies from 2580K to 3710K.
4. Color coordinates measurement allowance :  $\pm 0.01$
5. Color bins are defined as IF=700mA operation.

## Cool-White Bin Structure



### Cool-White Bin Coordinates

#### 5000K

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 50K-1                       | 0.346 | 0.369 |
|                             | 0.345 | 0.356 |
|                             | 0.353 | 0.362 |
|                             | 0.355 | 0.376 |
| Reference Range: 4745~5000K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 50K-2                       | 0.338 | 0.362 |
|                             | 0.337 | 0.349 |
|                             | 0.345 | 0.356 |
|                             | 0.346 | 0.369 |
| Reference Range: 5000~5310K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 50K-4                       | 0.345 | 0.356 |
|                             | 0.344 | 0.343 |
|                             | 0.352 | 0.349 |
|                             | 0.353 | 0.362 |
| Reference Range: 4745~5000K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 50K-3                       | 0.337 | 0.349 |
|                             | 0.337 | 0.337 |
|                             | 0.344 | 0.343 |
|                             | 0.345 | 0.356 |
| Reference Range: 5000~5310K |       |       |

#### 5700K

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 57K-1                       | 0.329 | 0.354 |
|                             | 0.329 | 0.342 |
|                             | 0.337 | 0.349 |
|                             | 0.338 | 0.362 |
| Reference Range: 5310~5700K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 57K-2                       | 0.321 | 0.346 |
|                             | 0.321 | 0.335 |
|                             | 0.329 | 0.342 |
|                             | 0.329 | 0.354 |
| Reference Range: 5700~6020K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 57K-4                       | 0.329 | 0.342 |
|                             | 0.329 | 0.331 |
|                             | 0.337 | 0.337 |
|                             | 0.337 | 0.349 |
| Reference Range: 5310~5700K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 57K-3                       | 0.321 | 0.335 |
|                             | 0.322 | 0.324 |
|                             | 0.329 | 0.331 |
|                             | 0.329 | 0.342 |
| Reference Range: 5700~6020K |       |       |

6500K

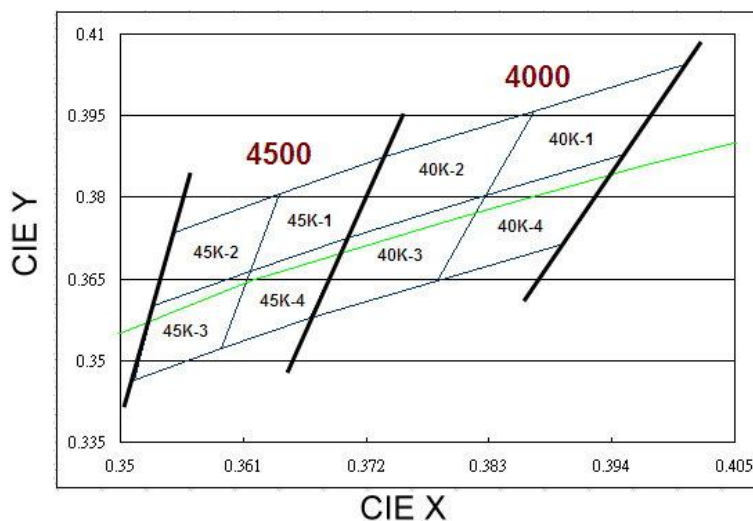
| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 65K-1                       | 0.312 | 0.339 |
|                             | 0.313 | 0.329 |
|                             | 0.321 | 0.337 |
|                             | 0.321 | 0.348 |
| Reference Range: 6020~6500K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 65K-2                       | 0.303 | 0.330 |
|                             | 0.305 | 0.321 |
|                             | 0.313 | 0.329 |
|                             | 0.312 | 0.339 |
| Reference Range: 6500~7050K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 65K-4                       | 0.313 | 0.329 |
|                             | 0.315 | 0.319 |
|                             | 0.322 | 0.326 |
|                             | 0.321 | 0.337 |
| Reference Range: 6020~6500K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 65K-3                       | 0.305 | 0.321 |
|                             | 0.307 | 0.311 |
|                             | 0.315 | 0.319 |
|                             | 0.313 | 0.329 |
| Reference Range: 6500~7050K |       |       |

Neutral-White Bin Structure



## Neutral-White Bin Coordinates

### 4000K

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 40K-1                       | 0.387 | 0.396 |
|                             | 0.383 | 0.380 |
|                             | 0.395 | 0.388 |
|                             | 0.401 | 0.404 |
| Reference Range: 3710~4000K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 40K-2                       | 0.374 | 0.387 |
|                             | 0.370 | 0.373 |
|                             | 0.383 | 0.380 |
|                             | 0.387 | 0.396 |
| Reference Range: 4000~4260K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 40K-4                       | 0.383 | 0.380 |
|                             | 0.378 | 0.365 |
|                             | 0.390 | 0.372 |
|                             | 0.395 | 0.388 |
| Reference Range: 3710~4000K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 40K-3                       | 0.370 | 0.373 |
|                             | 0.367 | 0.358 |
|                             | 0.378 | 0.365 |
|                             | 0.383 | 0.380 |
| Reference Range: 4000~4260K |       |       |

### 4500K

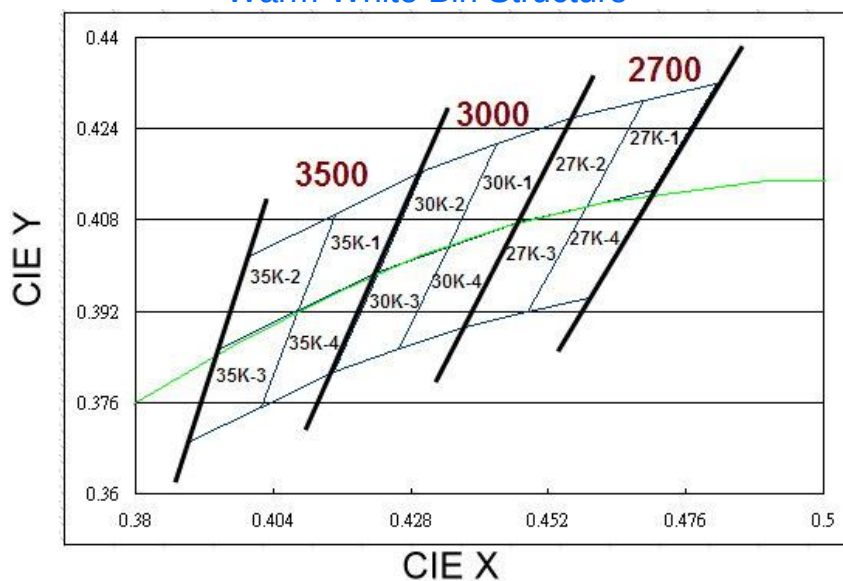
| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 45K-1                       | 0.364 | 0.381 |
|                             | 0.362 | 0.366 |
|                             | 0.370 | 0.373 |
|                             | 0.374 | 0.387 |
| Reference Range: 4260~4500K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 45K-2                       | 0.355 | 0.374 |
|                             | 0.353 | 0.360 |
|                             | 0.362 | 0.366 |
|                             | 0.364 | 0.381 |
| Reference Range: 4500~4745K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 45K-4                       | 0.362 | 0.366 |
|                             | 0.359 | 0.352 |
|                             | 0.367 | 0.358 |
|                             | 0.370 | 0.373 |
| Reference Range: 4260~4500K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 45K-3                       | 0.353 | 0.360 |
|                             | 0.351 | 0.347 |
|                             | 0.359 | 0.352 |
|                             | 0.362 | 0.366 |
| Reference Range: 4500~4745K |       |       |

### Warm-White Bin Structure



### Warm-White Bin Coordinates

#### 2700K

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 27K-1                       | 0.469 | 0.429 |
|                             | 0.459 | 0.410 |
|                             | 0.470 | 0.413 |
|                             | 0.481 | 0.432 |
| Reference Range: 2580~2700K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 27K-2                       | 0.456 | 0.426 |
|                             | 0.447 | 0.408 |
|                             | 0.459 | 0.410 |
|                             | 0.469 | 0.429 |
| Reference Range: 2700~2870K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 27K-4                       | 0.459 | 0.410 |
|                             | 0.448 | 0.392 |
|                             | 0.459 | 0.394 |
|                             | 0.470 | 0.413 |
| Reference Range: 2580~2700K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 27K-3                       | 0.447 | 0.408 |
|                             | 0.437 | 0.389 |
|                             | 0.448 | 0.392 |
|                             | 0.459 | 0.410 |
| Reference Range: 2700~2870K |       |       |

3000K

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 30K-1                       | 0.443 | 0.421 |
|                             | 0.435 | 0.403 |
|                             | 0.447 | 0.408 |
|                             | 0.456 | 0.426 |
| Reference Range: 2870~3000K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 30K-2                       | 0.430 | 0.417 |
|                             | 0.422 | 0.399 |
|                             | 0.435 | 0.403 |
|                             | 0.443 | 0.421 |
| Reference Range: 3000~3220K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 30K-4                       | 0.435 | 0.403 |
|                             | 0.426 | 0.385 |
|                             | 0.437 | 0.389 |
|                             | 0.447 | 0.408 |
| Reference Range: 2870~3000K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 30K-3                       | 0.422 | 0.399 |
|                             | 0.415 | 0.381 |
|                             | 0.426 | 0.385 |
|                             | 0.435 | 0.403 |
| Reference Range: 3000~3220K |       |       |

3500K

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 35K-1                       | 0.415 | 0.409 |
|                             | 0.408 | 0.392 |
|                             | 0.422 | 0.399 |
|                             | 0.430 | 0.417 |
| Reference Range: 3220~3500K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 35K-2                       | 0.400 | 0.402 |
|                             | 0.394 | 0.385 |
|                             | 0.408 | 0.392 |
|                             | 0.415 | 0.409 |
| Reference Range: 3500~3710K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 35K-4                       | 0.408 | 0.392 |
|                             | 0.402 | 0.375 |
|                             | 0.415 | 0.381 |
|                             | 0.422 | 0.399 |
| Reference Range: 3220~3500K |       |       |

| Bin                         | CIE X | CIE Y |
|-----------------------------|-------|-------|
| 35K-3                       | 0.394 | 0.385 |
|                             | 0.389 | 0.369 |
|                             | 0.402 | 0.375 |
|                             | 0.408 | 0.392 |
| Reference Range: 3500~3710K |       |       |

## Forward Voltage Bins

| Group Name | Bins        |
|------------|-------------|
| N          | O4+O5+O6    |
| O          | O5+O6+O7    |
| P          | O4+O5+O6+O7 |
| Q          | O7+R1+R2    |
| R          | R1+R2+R3    |
| S          | R2+R3       |
| T          | R2+R3+R4    |

| Bin | Minimum Forward Voltage (V) | Maximum Forward Voltage (V) |
|-----|-----------------------------|-----------------------------|
| O1  | 4.5                         | 5.0                         |
| O2  | 5.0                         | 5.5                         |
| O3  | 5.5                         | 6.0                         |
| O4  | 6.0                         | 6.5                         |
| O5  | 6.5                         | 7.0                         |
| O6  | 7.0                         | 7.5                         |
| O7  | 7.5                         | 8.0                         |
| R1  | 8.0                         | 9.0                         |
| R2  | 9.0                         | 10.0                        |
| R3  | 10.0                        | 11.0                        |
| R4  | 11.0                        | 12.0                        |

### Notes:

- Forward voltage measurement tolerance:  $\pm 0.1V$ .
- Forward voltage bins are defined as  $I_F=700\text{ mA}$  operation.
- Currently available Forward Voltage bins for White LEDs are highlighted and bolded.
- Other Forward Voltage bins for White LEDs available upon request. Please contact your local Everlight sales office.

## Optical Characteristics

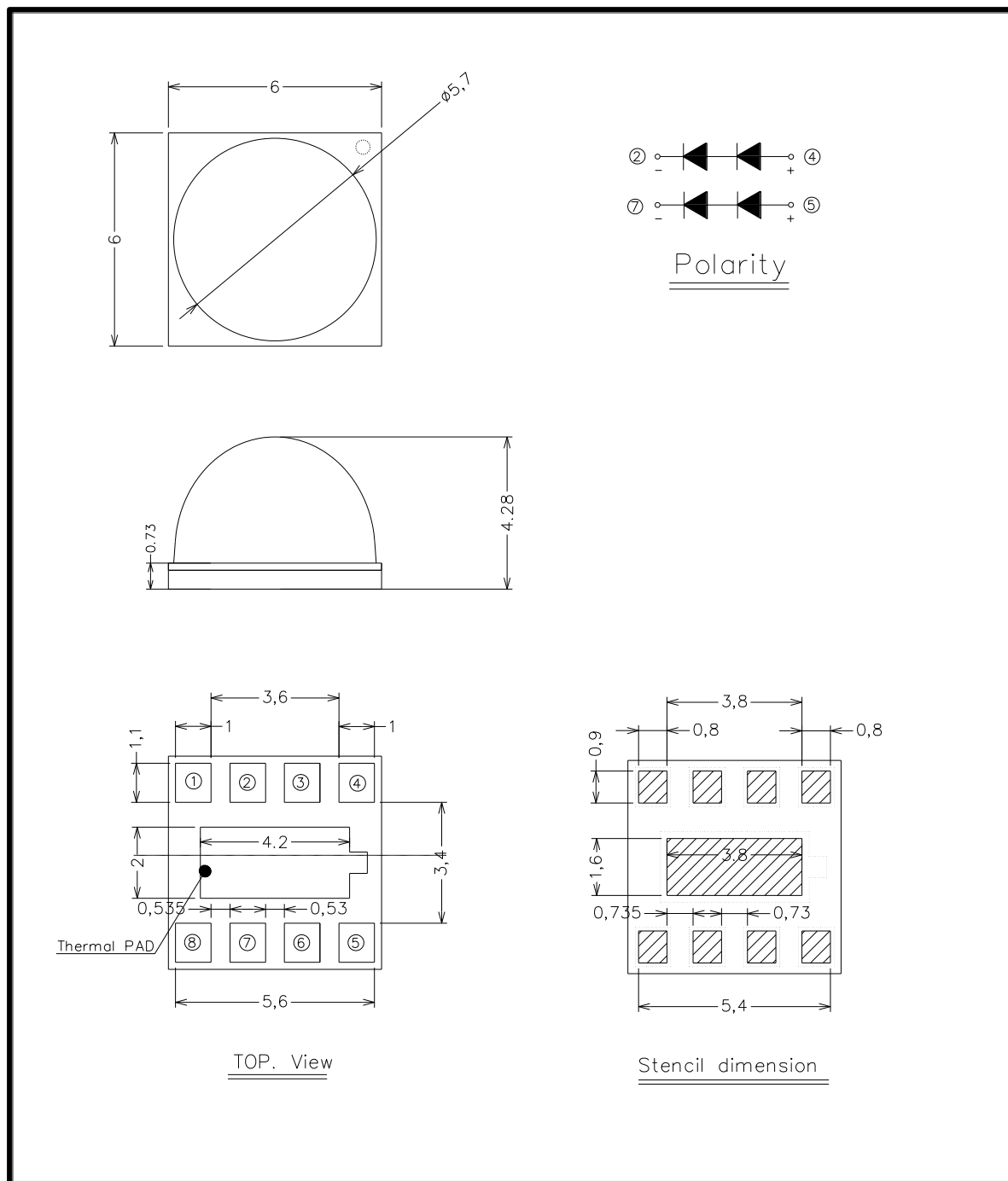
| Color         | Part Number        | Color Temperature CCT |       |       | Typical<br>Viewing Angle<br>(degrees)<br>$2\theta_{1/2}$ |
|---------------|--------------------|-----------------------|-------|-------|----------------------------------------------------------|
|               |                    | Min.                  | Typ.  | Max.  |                                                          |
| Cool-White    | ELYI – XX2C5-0LPGS | 4745K                 | 5700K | 7050K | 105                                                      |
| Neutral-White | ELYI – XX2N5-0LPGS | 3710K                 | 4260K | 4745K | 105                                                      |
| Warm-White    | ELYI – XX2M5-0LPGS | 2580K                 | 3000K | 3710K | 105                                                      |
| Cool-White    | ELYI – XX2C5-0CPGS | 4745K                 | 5700K | 7050K | 90                                                       |
| Neutral-White | ELYI – XX2N5-0CPGS | 3710K                 | 4260K | 4745K | 90                                                       |
| Warm-White    | ELYI – XX2M5-0CPGS | 2580K                 | 3000K | 3710K | 90                                                       |

### Notes:

1. The test tolerance of Everlight is  $\pm 5\%$  for CCT.
2. Viewing angle is the width of half the light output intensity in all directions of  $180^\circ$ .
3. All Cool-White, Neutral-White, Warm-White LEDs are made with Indium Gallium Nitride (InGaN).



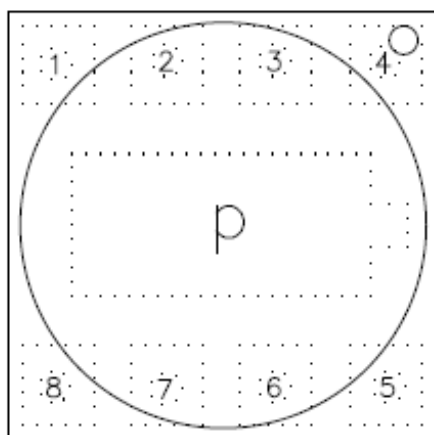
## Mechanical Dimension



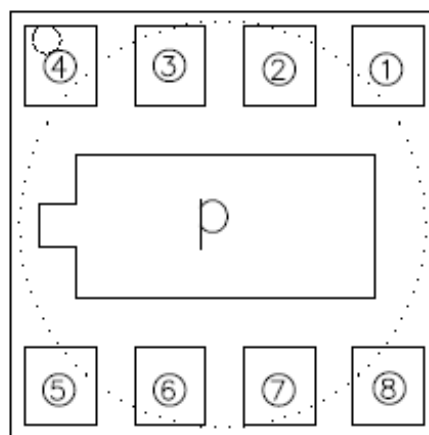
### Notes:

1. Dimensions are in millimeters.
2. Tolerances unless mentioned are  $\pm 0.15$ mm.
3. Do not handle the device by the lens. Incorrect force applied to the lens may lead to the failure of devices.
4. The thermal pad is electrically isolated from the Anode and Cathode contact pads.

## Pad Configuration



Top view



Bottom view

| PAD         | FUNCTION       |
|-------------|----------------|
| 4 and 5     | ANODE          |
| 2 and 7     | CATHODE        |
| 1,3,6 and 8 | [1]            |
| P           | THERMAL PAD[2] |

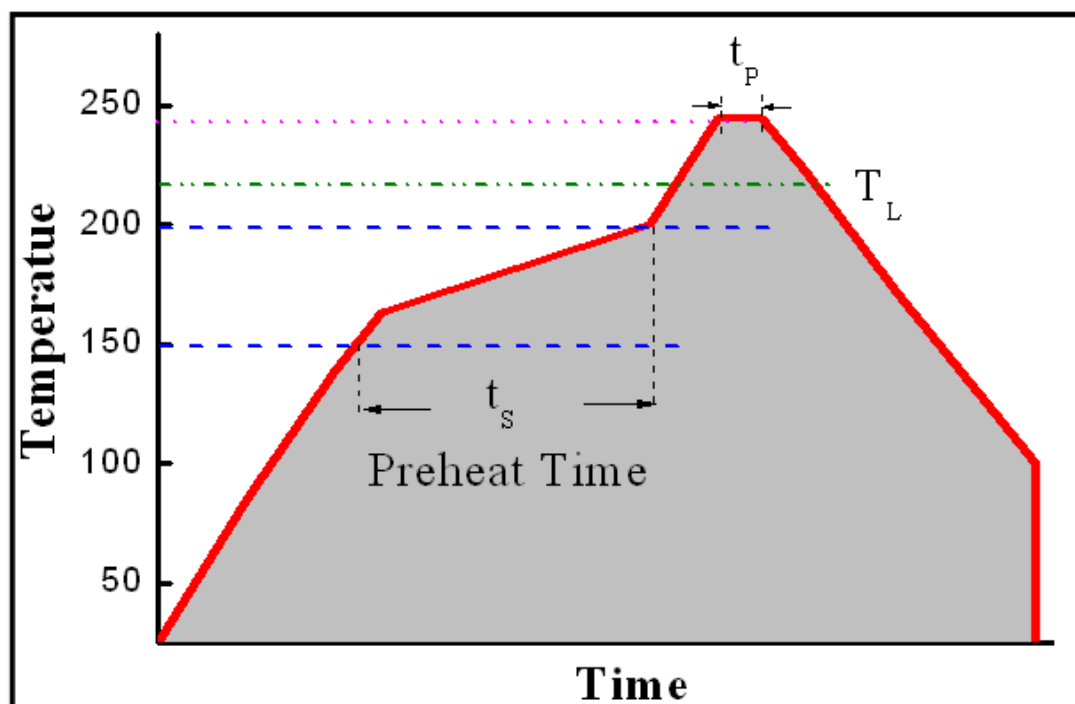
### Notes:

1. No designing and soldering any electrical circuit
2. The thermal pad is electrically isolated from the cathode and anode contact pads.

## Reflow Soldering Characteristics

### For Reflow Process

- a. ELYI series are suitable for SMT processes.
- b. Curing of glue in oven must be according to standard operation flow processes.

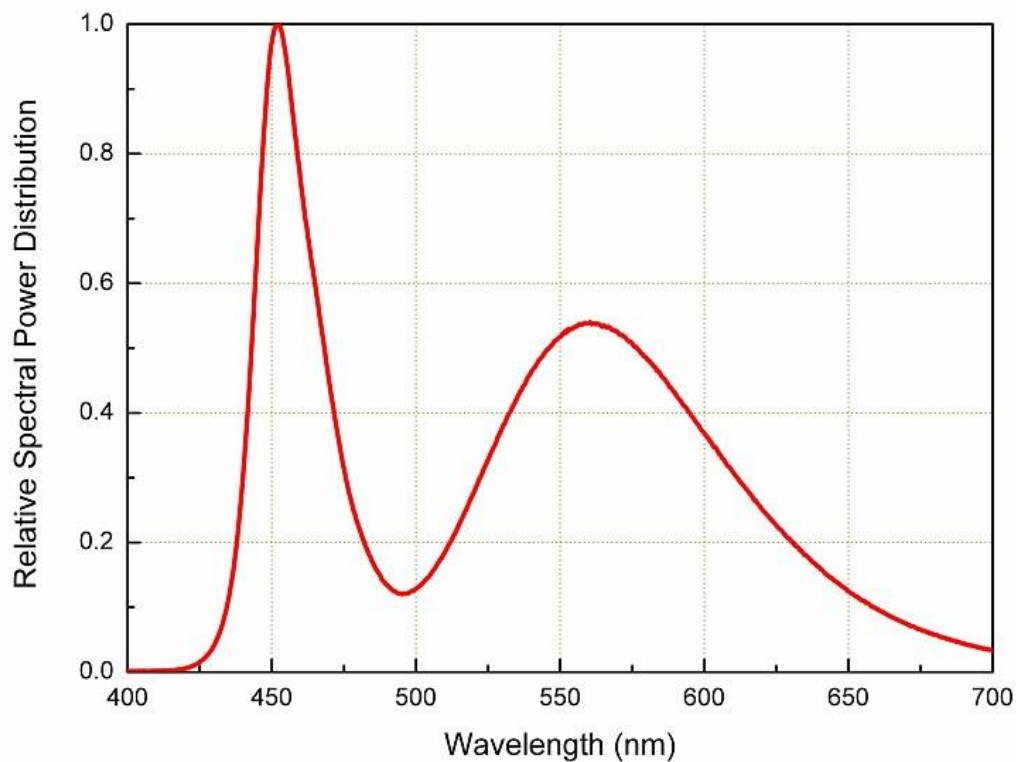


| Profile Feature              | Lead Free Assembly |
|------------------------------|--------------------|
| Ramp-Up Rate                 | 2-3 °C/S           |
| Preheat Temperature          | 150-200 °C         |
| Preheat Time ( $t_s$ )       | 60-120 S           |
| Liquid Temperature ( $T_L$ ) | 217 °C             |
| Time maintained above $T_L$  | 60-90 S            |
| Peak Temperature ( $T_P$ )   | 240±5 °C           |
| Peak Time ( $t_P$ )          | Max 20 S           |
| Ramp-Down Rate               | 3-5 °C/S           |

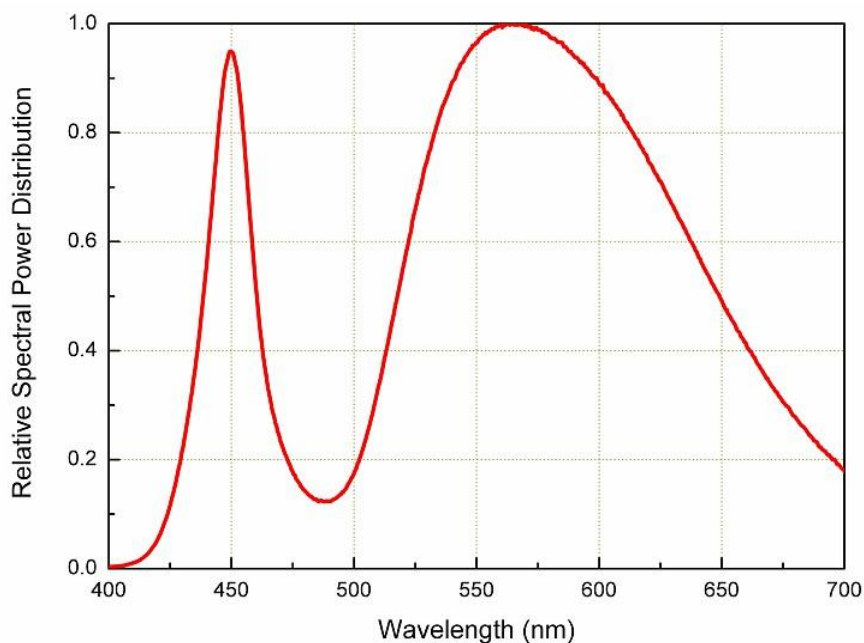
1. Reflow soldering should not be done more than twice.
2. In soldering process, stress on the LEDs during heating should be avoided.
3. After soldering, do not bend the circuit board.

## Wavelength Characteristics

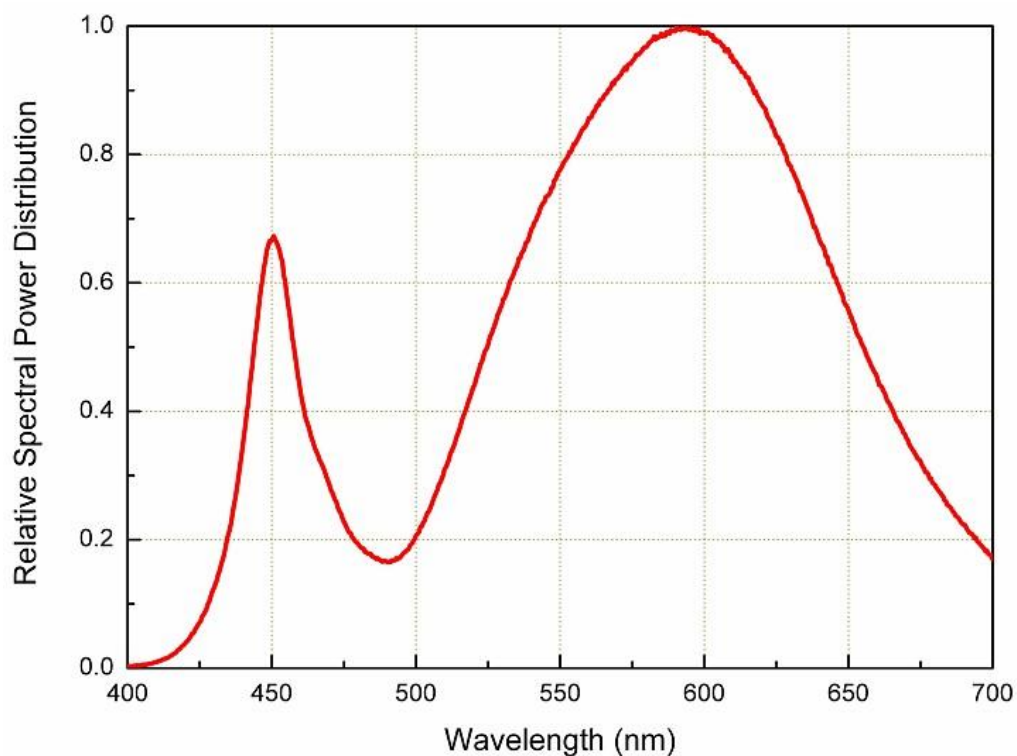
For Cool-White, @ Thermal Pad Temperature = 25°C



For Neutral-White, @ Thermal Pad Temperature = 25°C

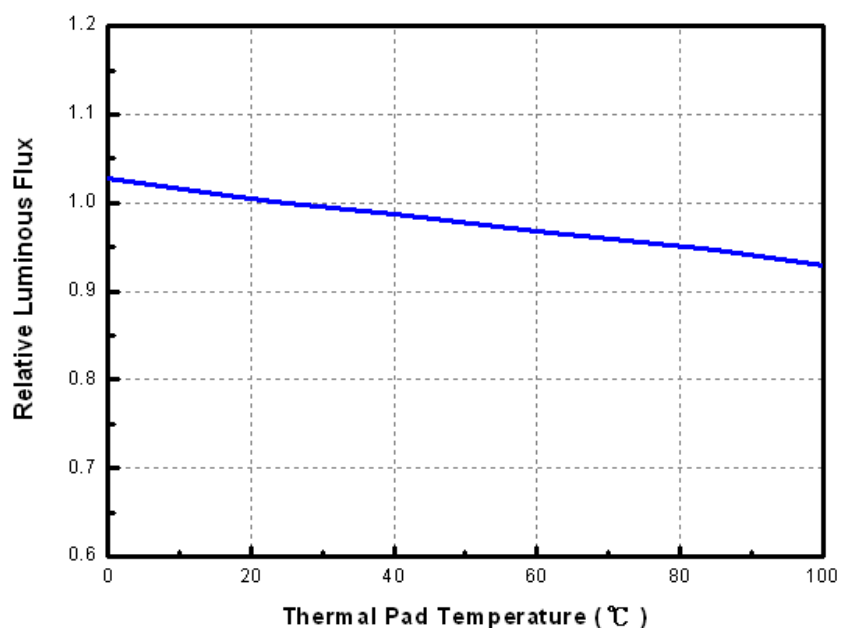


For Warm-White, @ Thermal Pad Temperature = 25°C



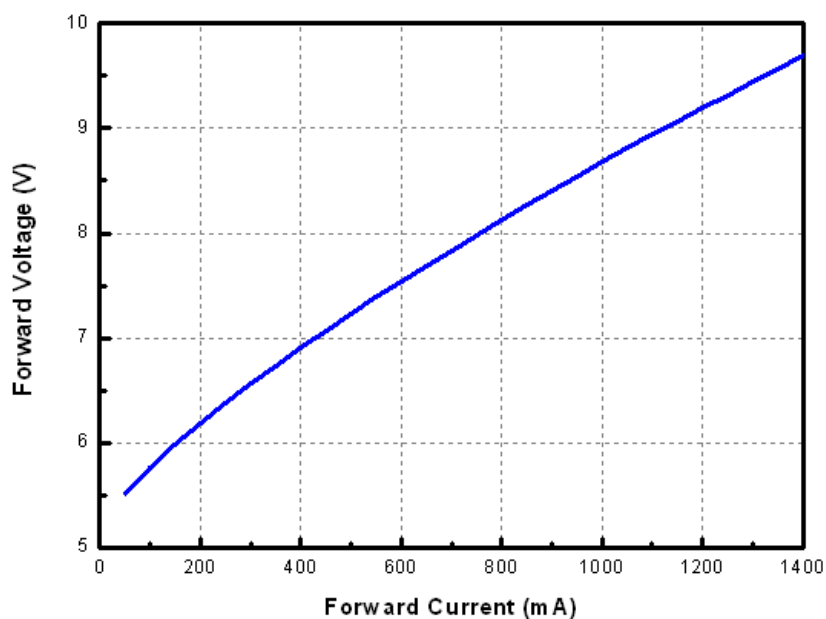
## Typical Light Output Characteristic vs. Thermal Pad Temperature

Cool-White, Neutral-White, Warm-White for 700mA Drive Current



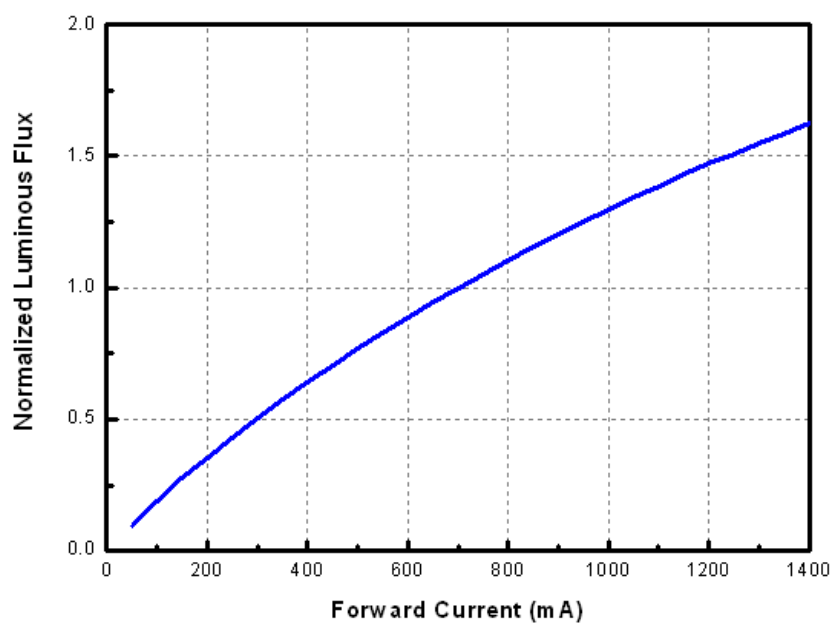
## Typical Electrical Characteristics

For Cool-White, Neutral-White, Warm-White  
@ Thermal Pad Temperature = 25°C



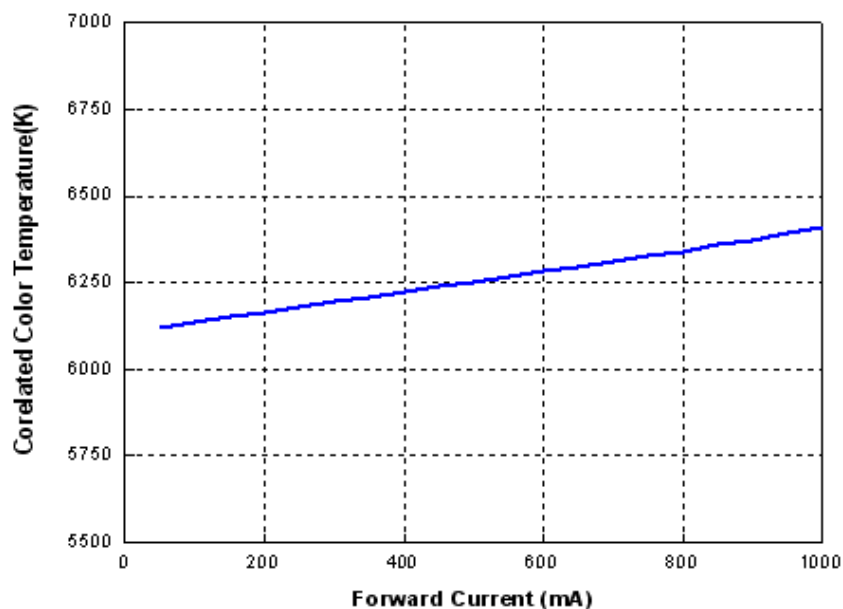
## Typical Relative Luminous Flux vs. Forward Current

For Cool-White, Neutral-White, Warm-White  
@ Thermal Pad Temperature = 25°C

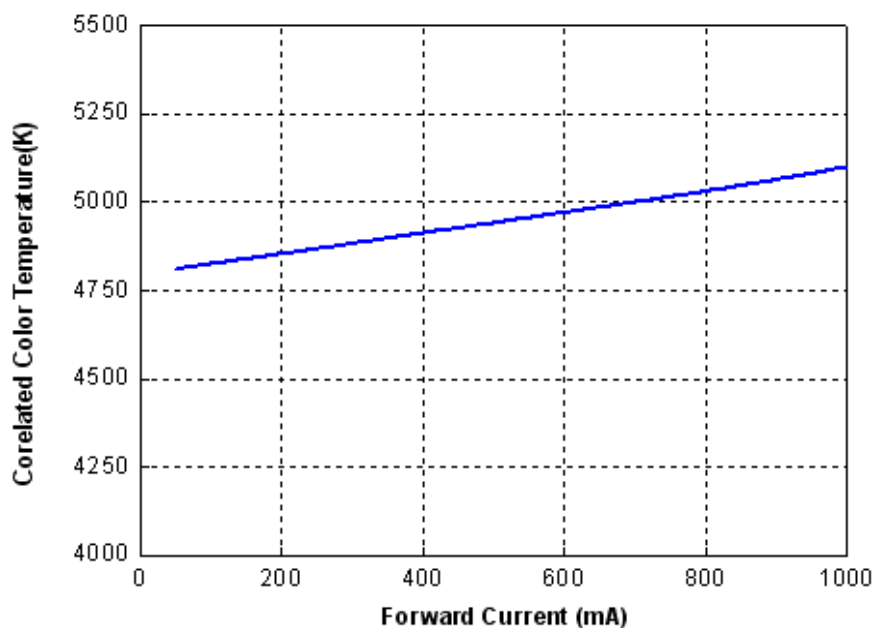


## Typical CCT Shift Characteristics vs. Forward Current

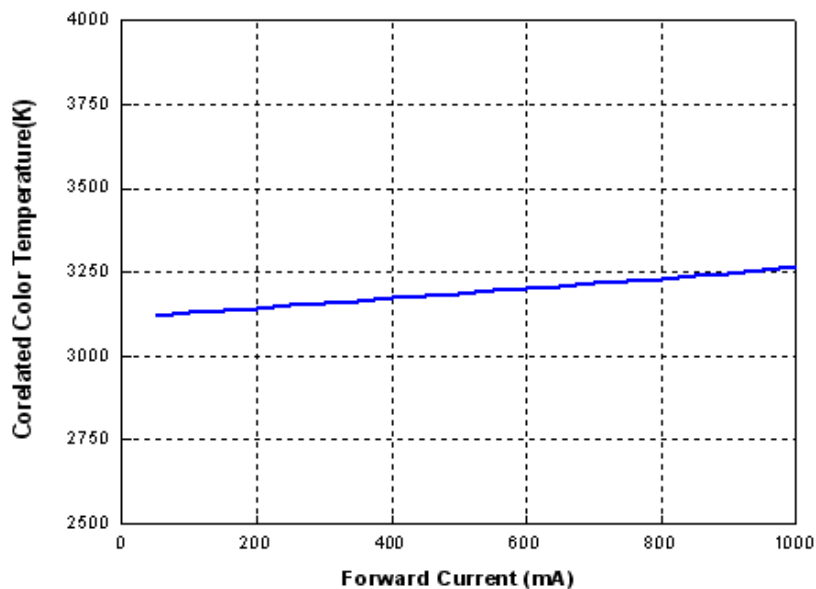
For Cool-White @ Thermal Pad Temperature = 25°C



For Neutral -White @ Thermal Pad Temperature = 25°C

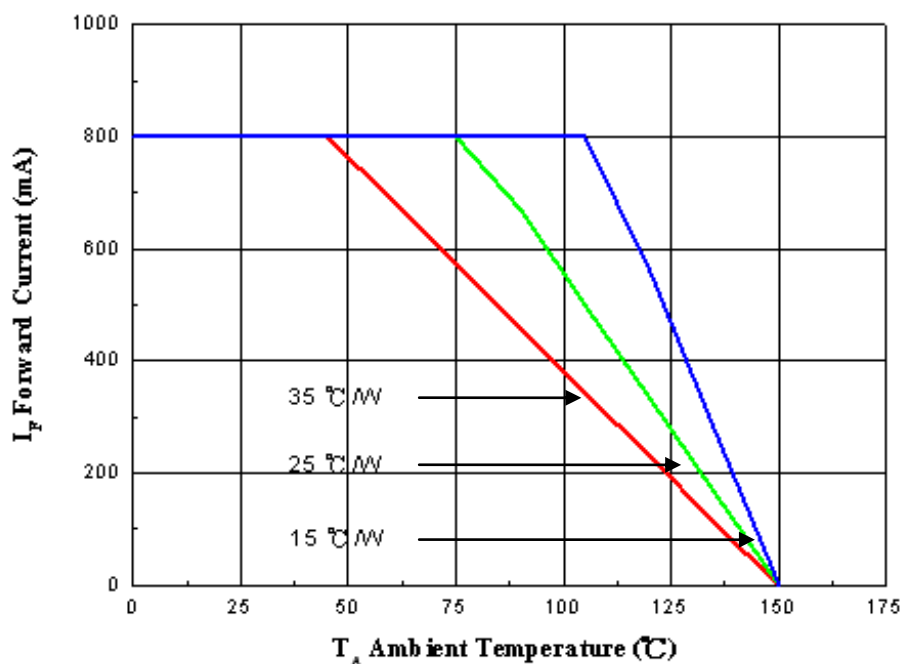


For Warm-White @ Thermal Pad Temperature = 25°C



## Current Derating Curves

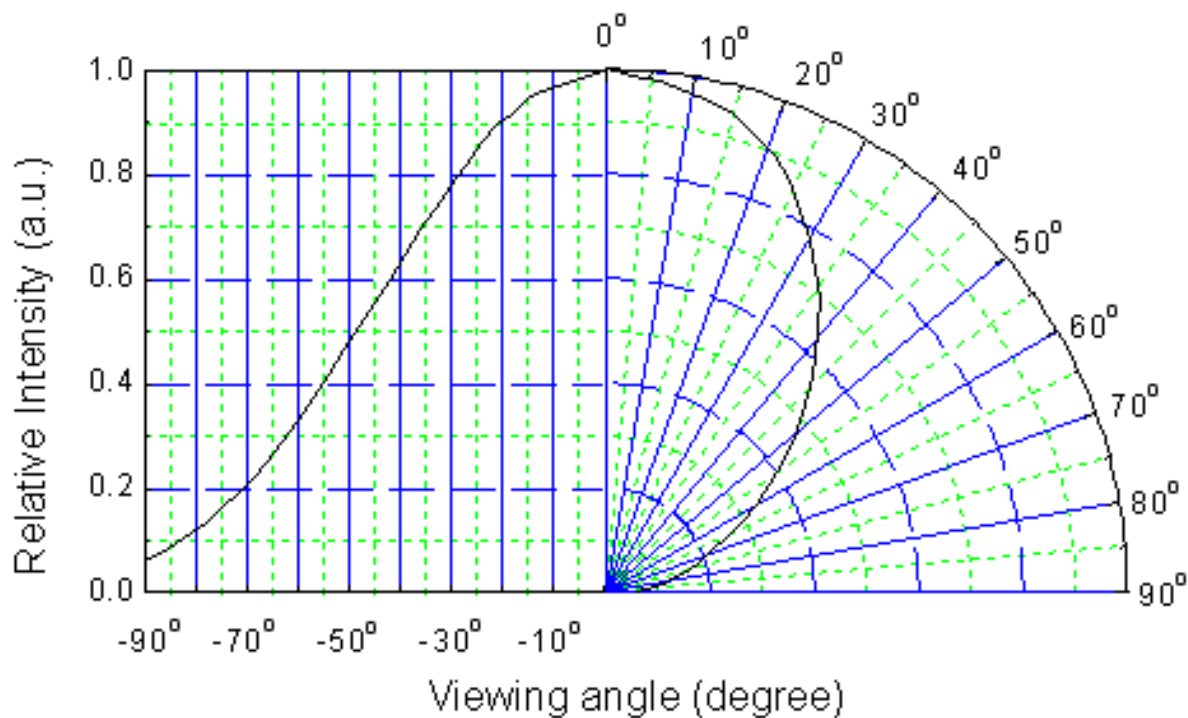
Current Derating Curve for 800mA Drive Current  
Cool-White, Neutral-White, Warm-White





## Typical Radiation Patterns

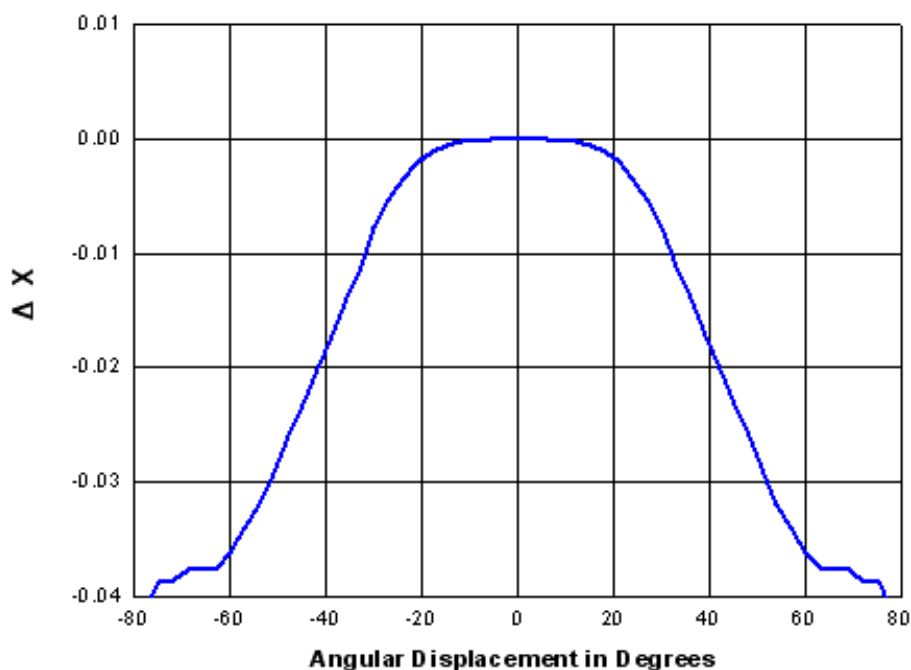
Typical Spatial and Polar Radiation Pattern for Cool-White,  
Neutral-White, Warm-White  
(For ELYI-KXXX5-0LXXX-XXXXXX)



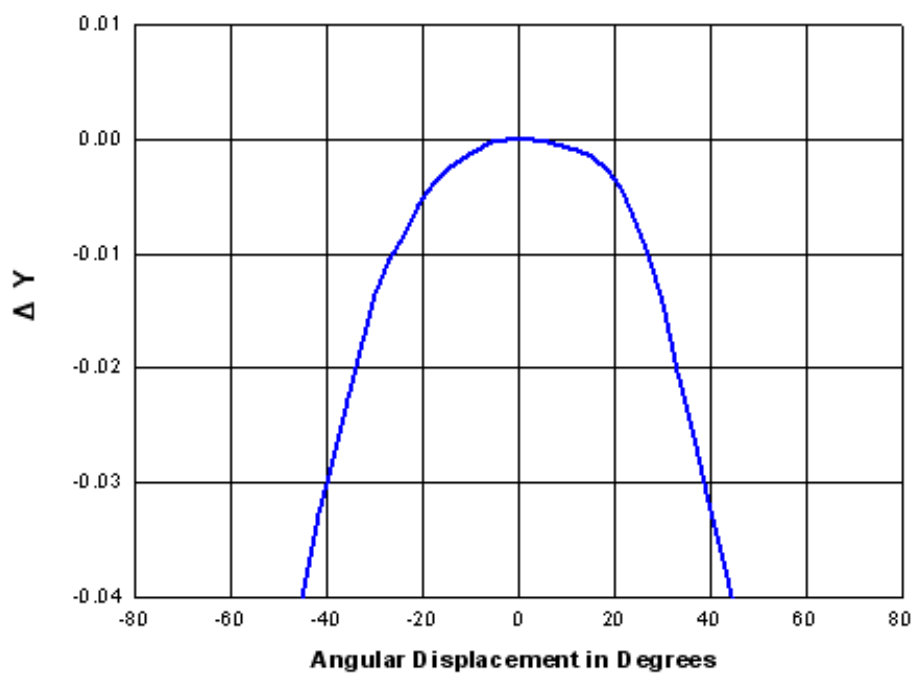
### Notes:

1.  $2\theta_{1/2}$  is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is  $\pm 10^\circ$ .

**Typical Difference of CIE X of Cool-White versus Angle**  
(For ELYI-KXXX5-0LXXX-XXXXXX)

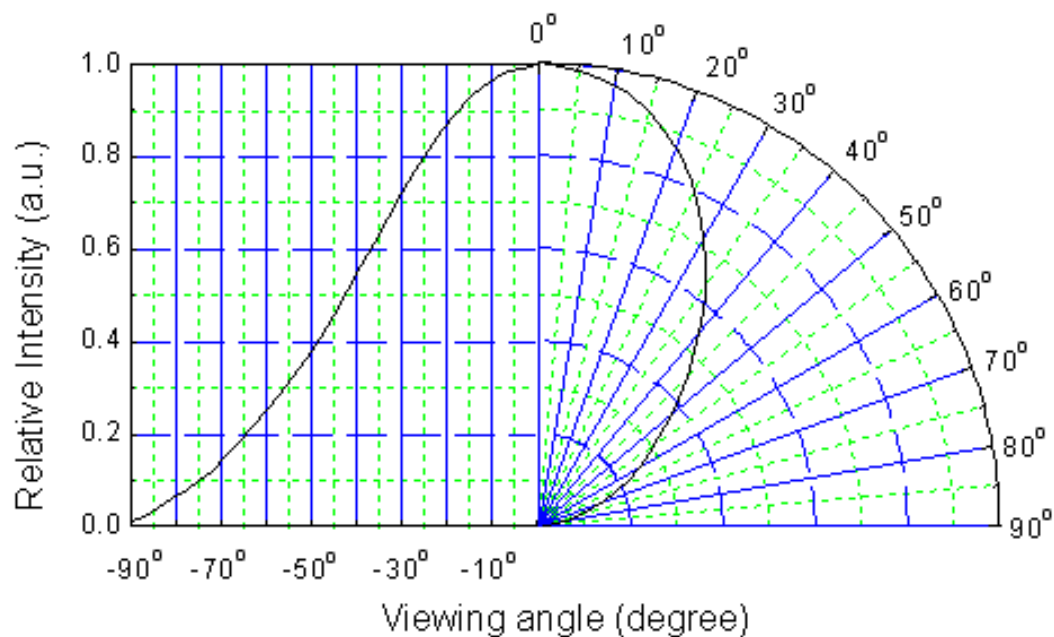


**Typical Difference of CIE Y of Cool-White versus Angle**  
(For ELYI-KXXX5-0LXXX-XXXXXX)



## Typical Radiation Patterns

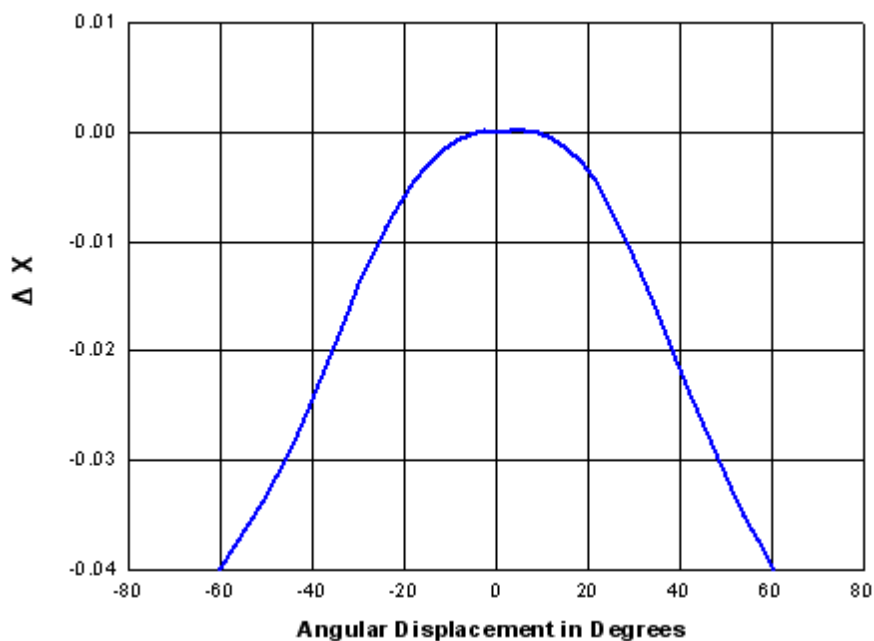
Typical Spatial and Polar Radiation Pattern for Cool-White,  
Neutral-White, Warm-White  
(For ELYI-KXXX5-0CXXX-XXXXX)



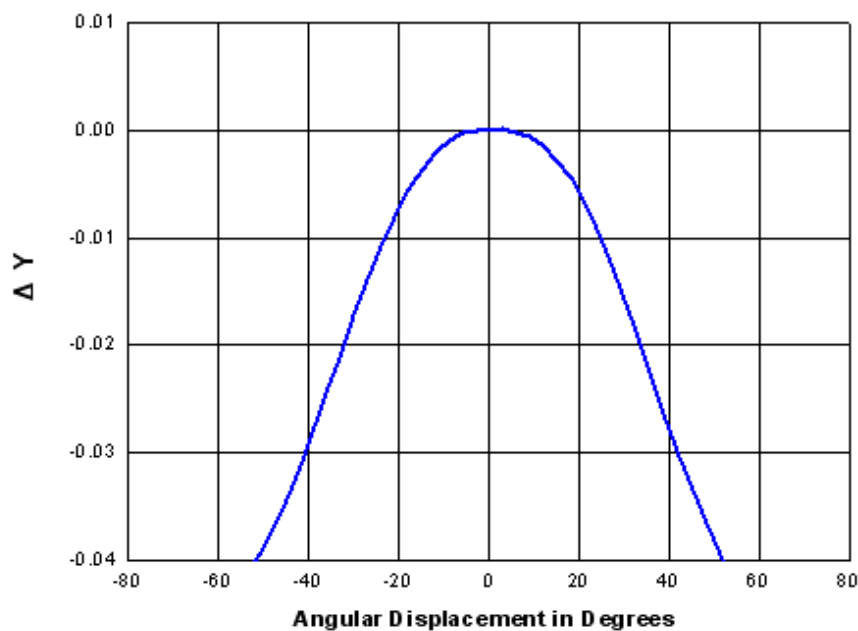
### Notes:

3.  $2\theta_{1/2}$  is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
4. View angle tolerance is  $\pm 10^\circ$ .

**Typical Difference of CIE X of Cool-White versus Angle**  
(For ELYI-KXXX5-0CXXX-XXXXX)



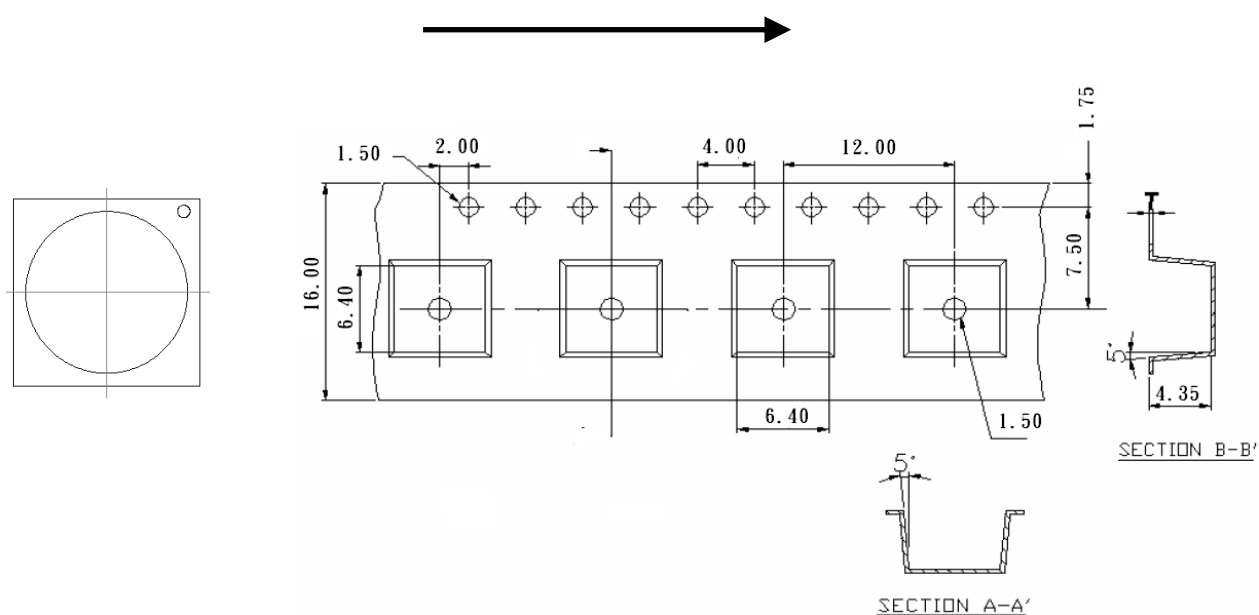
**Typical Difference of CIE Y of Cool-White versus Angle**  
(For ELYI-KXXX5-0CXXX-XXXXX)



## Emitter Tape Packaging

Carrier Tape Dimensions As The Below :

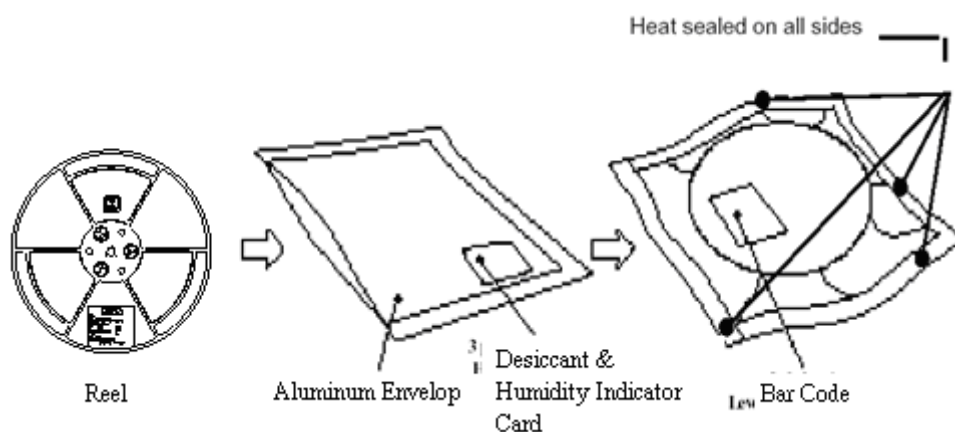
If order quantity is  $\geq 1K$ , the minimum packing quantity is not less than 250pcs per reel



### Notes:

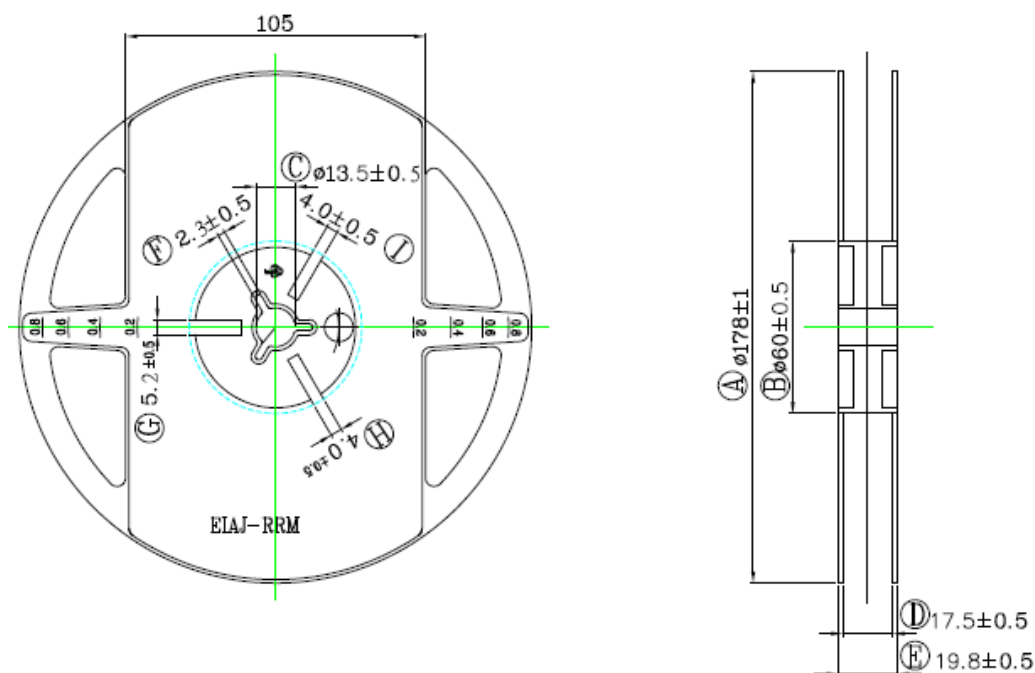
1. Dimensions are in millimeters.
2. Tolerances for fixed dimensions are  $\pm 0.1\text{mm}$ .

## Moisture Resistant Packaging



## Emitter Reel Packaging

### Reel Dimensions



#### Notes:

1. Dimensions are in millimeters.
2. Tolerances unless mentioned are  $\pm 0.1$ mm.

## Product Labeling

### Label Explanation

CPN: Customer Specification (when required)

P/N: Everlight Production Number

QTY: Packing Quantity

CAT: Luminous Flux (Brightness) Bin

HUE: Color Bin

REF: Forward Voltage Bin

LOT No: Lot Number

MADE IN TAIWAN: Production Place



## Storage Conditions

- Before the package is opened. The LEDs should be stored at 30°C or less and 85%RH or less after being shipped from Everlight and the storage life limits are 1 year. If the LEDs are stored for 1 year or more, they can be stored for 3 years in a sealed container with a nitrogen atmosphere and moisture absorbent material.
- After opening the package: The LED's floor life is 1 year under 30°C or less and 60%RH or less. The LED should be soldered with 168hrs (7days) after opening the package. If unused LEDs remain, it should be stored in moisture proof packages.
- If the moisture absorbent material (silica gel) has faded away or the LEDs have exceeded the storage time, baking treatment should be performed using the following conditions. Baking treatment: 60±5°C for 24 hours.

## Revision History

Current version: **04/09/2012**

Previous version: N/A

Device No. DHE-0001157

Rev. Ver. 11

| Page  | Subjects (major change in previous version)                                              | Date of change |
|-------|------------------------------------------------------------------------------------------|----------------|
| 14    | In the mechanical dimension, the polarity is changed.                                    | 05/30/2010     |
| 23    | In the emitter tape packaging, the polarity is changed.                                  | 05/30/2010     |
| 14    | In the mechanical dimension, the polarity is changed.                                    | 06/04/2010     |
| 15    | In the pad configuration, the polarity is changed.                                       | 06/04/2010     |
| 3     | In the product nomenclature, the designation is changed.                                 | 08/27/2010     |
| 4     | In the absolute maximum ratings, the parameter is changed.                               | 08/27/2010     |
| 23    | In the emitter tape packaging, the diagram is changed.                                   | 08/27/2010     |
| 5     | In the product nomenclature, the designation is changed.                                 | 04/08/2011     |
| 14    | In the product mechanical dimension, the diagram is changed.                             | 06/03/2011     |
| 10    | Addition to PN of The Yi High Luminous Series.                                           | 08/02/2011     |
| 35    | Carrier Tape Dimensions.                                                                 | 08/02/2011     |
| 33-34 | Increased (For ELYI-KXXX5-0LXXX-XXXXX)                                                   | 08/18/2011     |
| 35-36 | Increased (For ELYI-KXXX5-0CXXX-XXXXX)                                                   | 08/18/2011     |
| 5-10  | Increased * Product lead-time of at least 8 weeks and *product                           | 09/15/2011     |
| 19    | Modified 65K-4 & 65K-3 CIE-X is 0314 changed of 0.315                                    | 10/06/2011     |
| 25    | Modified Mechanical Dimension of the tolerances unless mentioned are $\pm 0.15\text{mm}$ | 10/27/2011     |
| 37    | Modified of Emitter Tape Packaging                                                       | 10/27/2011     |
| 5-7   | Modified cool while product(For ELYI-KXXX5-0LXXX-XXXXX)                                  | 04/09/2012     |



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[ELYI-K52C5-0LPGS-P6500](#) [ELYI-K62C5-0LPGS-P5700](#) [ELYI-K62C5-0LPGS-P6500](#) [ELYI-K72C5-0LPGS-P5700](#)  
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