



# SPECIFICATION

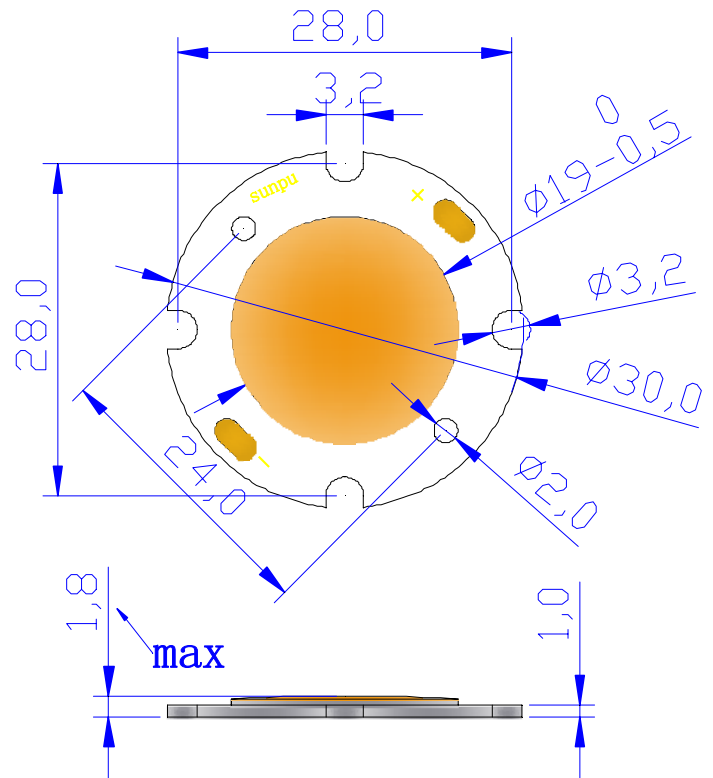
Part No.: 10VAC30DW6

### Features:

- High radiometric power per LED
- Very long operating life (up to 100K hours)
- Low voltage DC operated
- More Energy Efficient than Incandescent and most Halogen lamps
- Good color uniformity
- NO UV
- Superior ESD protection
- Easy installation with Screws
- High Heat dissipation Efficiency

### Typical Applications:

- Reading lights(car,bus,aircraft)
- Portable(flashlight,bicycle)
- Automotive Exterior(Stop-Tail-Turn, CHMSL,Mirror Side Repeat)
- Decorative/Entertainment
- Dental curing lights
- Uplighters/Downlighters
- Bollards/Security/Garden
- Cove/Undershelf/Task
- Indoor/Outdoor Commercial and Residential Architectural
- Automotive Ext(stop-Tail-Turn)
- Street Lamp



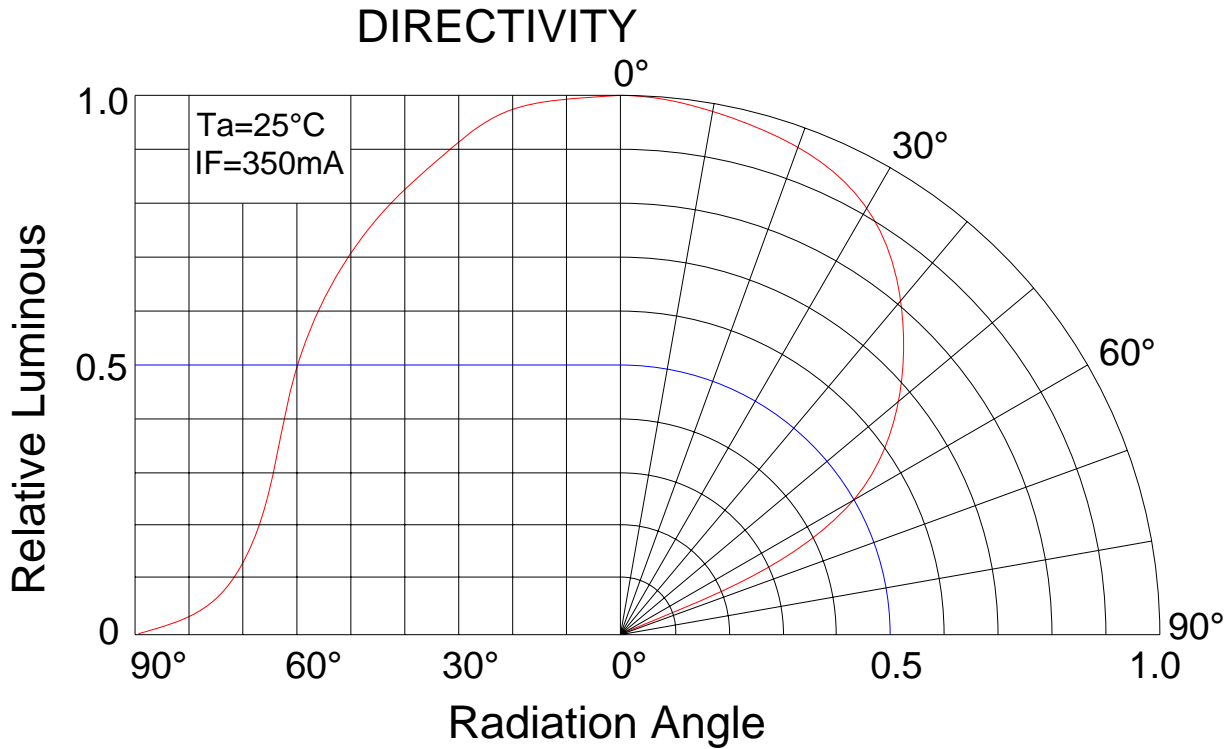
### NOTE:

- All dimensions are millimeter.
- Tolerance is  $\pm 0.1$ mm unless otherwise noted.
- It is strongly recommended that the temperature of lead be not higher than 70°C.
- The appearance and specifications of the product may be modified for improvement without notice.



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**Typical Radiation Pattern**



**Absolute maximum ratings (Ta = 25°C)**

| Parameter                | Symbol | Test Condition | Value                   |      | Unit |
|--------------------------|--------|----------------|-------------------------|------|------|
|                          |        |                | Min.                    | Max. |      |
| DC Forward Current       | IF     | ----           | ----                    | 400  | mA   |
| Peak Pulse Current       | Ipeak  | Duty=1/10 1kHz | ----                    | 500  | mA   |
| Power Dissipation        | Pd     | ----           | ----                    | 11.5 | W    |
| LED Junction Temperature | Tj     | ----           | ----                    | 105  | °C   |
| Operating Temperature    | Topr   | ----           | -25                     | +85  | °C   |
| Storage Temperature      | Tstr   | ----           | -40                     | +100 | °C   |
| ESD Sensitivity          | ----   | HBM            | 8000                    | ---- | V    |
| Soldering Temperature    | ----   | ----           | 220°C for 5 Seconds max |      |      |



**Part No.:** 10VAC30DW6

**Electrical and optical characteristics (Ta = 25°C)**

| Parameter          | Symbol | Test Condition | Value |       |      | Unit |
|--------------------|--------|----------------|-------|-------|------|------|
|                    |        |                | Min.  | Typ.  | Max. |      |
| Forward Voltage    | VF     | IF = 350mA     |       | 29    |      | V    |
| Luminous Flux      | Φv     |                |       | 1100  | ---- | lm   |
| Viewing Angle      | 2θ 1/2 |                | ----  | 120   | ---- | Deg. |
| Color Temperature  | CCT    |                | 5000  | ----- | 6500 | K    |
| Thermal Resistance | Rj     | -----          |       | 2.5   |      | °C/W |

**Luminous Flux Bins (Ta = 25°C)**

**Unit: lm**

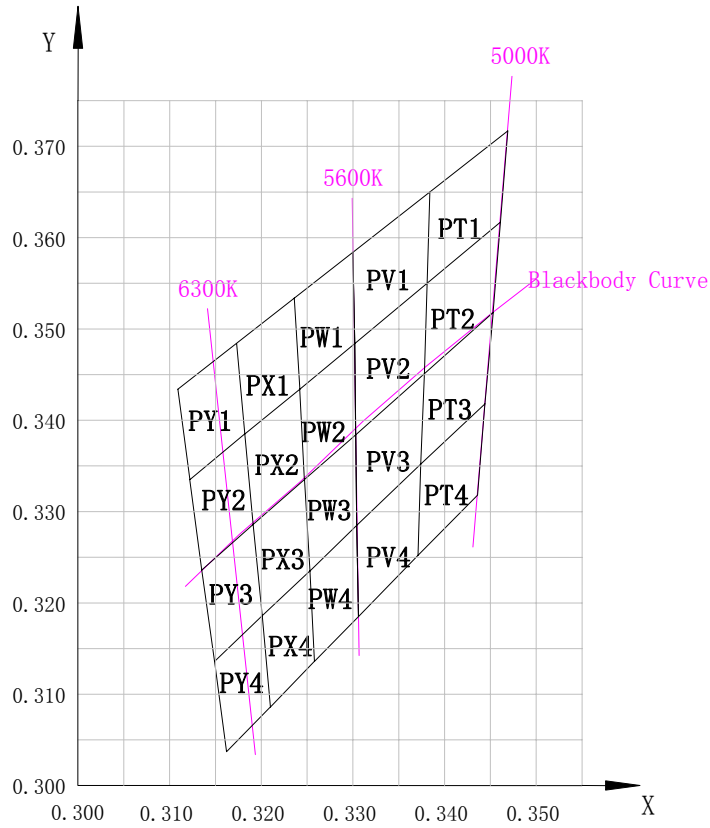
| Bin | D2  | E2   | F2   | G2   |
|-----|-----|------|------|------|
| Min | 800 | 900  | 1000 | 1200 |
| Max | 900 | 1000 | 1200 | 1400 |

**Chromaticity Coordinates Ranks(IF=350mA Ta=25°C)**

| Bin | x1     | y1     | x2     | y2     | x3     | y3     | x4     | y4     |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|
| PT1 | 0.3384 | 0.3650 | 0.3381 | 0.3550 | 0.3461 | 0.3617 | 0.3469 | 0.3717 |
| PT2 | 0.3381 | 0.3550 | 0.3378 | 0.3451 | 0.3453 | 0.3518 | 0.3461 | 0.3617 |
| PT3 | 0.3378 | 0.3451 | 0.3374 | 0.3352 | 0.3444 | 0.3418 | 0.3453 | 0.3518 |
| PT4 | 0.3374 | 0.3352 | 0.3371 | 0.3252 | 0.3436 | 0.3318 | 0.3444 | 0.3418 |
| PV1 | 0.3300 | 0.3584 | 0.3302 | 0.3484 | 0.3381 | 0.3550 | 0.3384 | 0.3650 |
| PV2 | 0.3302 | 0.3484 | 0.3303 | 0.3384 | 0.3378 | 0.3451 | 0.3381 | 0.3550 |
| PV3 | 0.3303 | 0.3384 | 0.3304 | 0.3285 | 0.3374 | 0.3352 | 0.3378 | 0.3451 |
| PV4 | 0.3304 | 0.3285 | 0.3306 | 0.3185 | 0.3371 | 0.3252 | 0.3374 | 0.3352 |
| PW1 | 0.3236 | 0.3534 | 0.3242 | 0.3434 | 0.3302 | 0.3484 | 0.3300 | 0.3584 |
| PW2 | 0.3242 | 0.3434 | 0.3247 | 0.3335 | 0.3303 | 0.3384 | 0.3302 | 0.3484 |
| PW3 | 0.3247 | 0.3335 | 0.3253 | 0.3235 | 0.3304 | 0.3285 | 0.3303 | 0.3384 |
| PW4 | 0.3253 | 0.3235 | 0.3258 | 0.3136 | 0.3306 | 0.3185 | 0.3304 | 0.3285 |
| PX1 | 0.3173 | 0.3484 | 0.3182 | 0.3385 | 0.3242 | 0.3434 | 0.3236 | 0.3534 |
| PX2 | 0.3182 | 0.3385 | 0.3191 | 0.3286 | 0.3247 | 0.3335 | 0.3242 | 0.3434 |
| PX3 | 0.3191 | 0.3286 | 0.3201 | 0.3186 | 0.3253 | 0.3235 | 0.3247 | 0.3335 |
| PX4 | 0.3201 | 0.3186 | 0.3210 | 0.3086 | 0.3258 | 0.3136 | 0.3253 | 0.3235 |
| PY1 | 0.3109 | 0.3434 | 0.3122 | 0.3335 | 0.3182 | 0.3385 | 0.3173 | 0.3484 |
| PY2 | 0.3122 | 0.3335 | 0.3135 | 0.3236 | 0.3191 | 0.3286 | 0.3182 | 0.3385 |
| PY3 | 0.3135 | 0.3236 | 0.3149 | 0.3136 | 0.3201 | 0.3186 | 0.3191 | 0.3286 |
| PY4 | 0.3149 | 0.3136 | 0.3162 | 0.3037 | 0.3210 | 0.3086 | 0.3201 | 0.3186 |



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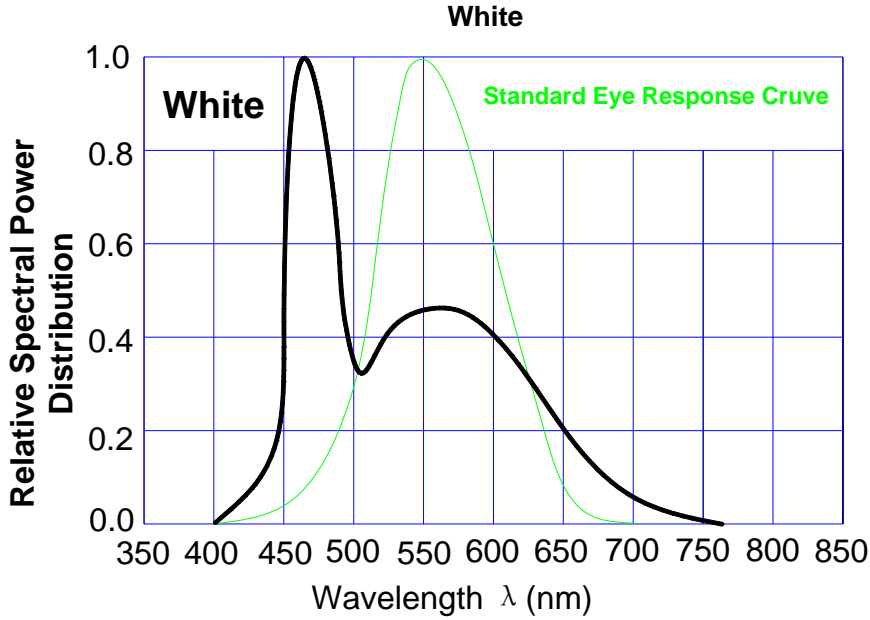
Note

1. Flux is measured with an accuracy of  $\pm 15\%$
2. Chromaticity Coordinates (x,y) is measured with an accuracy of  $\pm 0.01$
3. Forward Voltage is measured with an accuracy of  $\pm 0.2V$
4. It is strongly recommended that the temperature of lead be not higher than  $70^{\circ}C$



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Typical electrical/optical characteristic curves  $T_J=25^{\circ}\text{C}$



Typical electrical/optical characteristic curves:

Fig.1 Forward Current(mA) Vs. Forward Voltage(V)

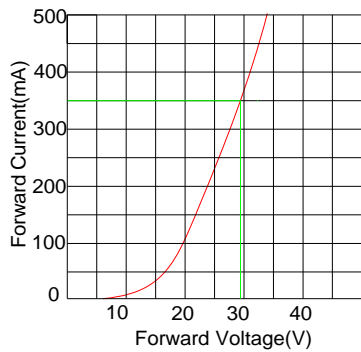


Fig.2 Relative Intensity Vs Forward Current (mA)

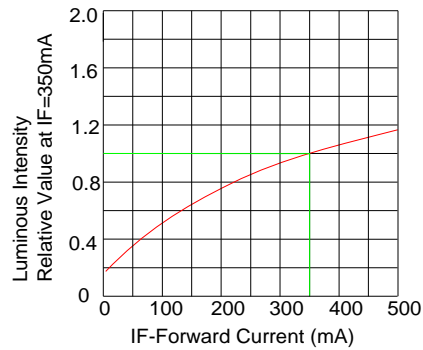


Fig.3 Forward Current Vs Ambient Temperature

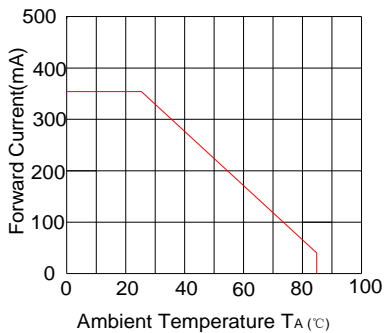
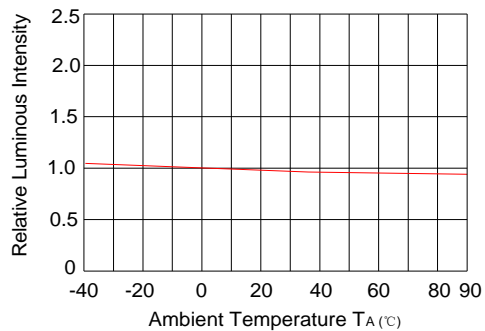


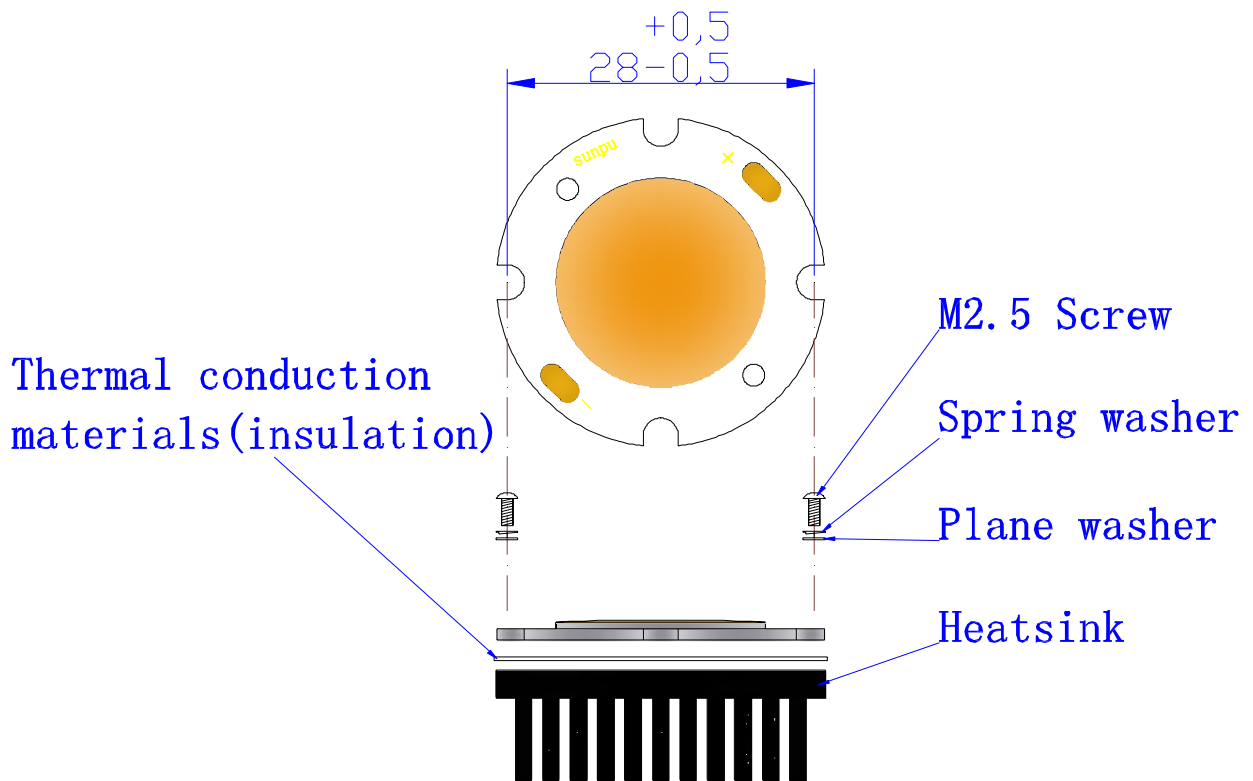
Fig.4 Relative Intensity Vs. Ambient Temperature





Part No.: 10VAC30DW6

Recommended installation screw pitch



If you can not solve the heat problem, the product will destroy easily. Suggest that the surface of the heat sink is 35cm<sup>2</sup>/1W