

V2 Standard/High PF LED T8 Tube



ALTLED®

Orion

Series

Specification Sheet

Product Introduction

Orion is one of the few constellations visible throughout the world. Its magnitude of lights and brightness represent our idea of the ideal Lighting product. Completely adaptable to any public spaces, ALT's Orion T8 is a truly revolutionary product. It converts the inefficient traditional fluorescents to energy-saving, long lasting, and mercury free LED system. Ideal for Main Indoor Lighting, Orion Series is designed to be available in , 2-feet, 3-feet, 4-feet , 5-feet, 6-feet and 8-feet versions. They can be used in Classrooms, Offices, Hospitals, Supermarkets, General Warehouse, and others. Tested locally by ALT's engineers, all Orion products are approved by the most important safety certification organizations in the world. It comes with a 3-years warranty and 2 million US dollars product liability insurance, and is rated up to 50,000 hours of use.

Certificates



Features

- ✓ Has been designed where there is no danger of getting shocked during installation.
- ✓ ALT LED T8 tube can directly replace traditional fluorescent T8 tube (simply remove starter) .
- ✓ Industry leading heat fin design endorses excellent heat management.
- ✓ NO UV, no radiation, no infra-red, no mercury or toxic materials used.

Application

- ✓ Commercial Lighting.
- ✓ Office Lighting.
- ✓ Illumination Lighting.
- ✓ Residential Lighting.

Specifications V2 for Standard

| Item | Specification | Details |
|---|-----------------------|--|
| Output | Beam Angle | 180° |
| | Colour Range | TW / NW / WW |
| | Lumen Maintenance | 50,000 hours |
| Electrical | Input Voltage | 100 ~ 240V AC |
| | Power Consumption | 8, 10, 16, 20 Watts |
| Physical | Base | <ul style="list-style-type: none"> ● G13 ● G13 90 Degree |
| | Option | single side input is available |
| | Lens | PC |
| | Operating Temperature | -4° F to 104° F (-20°C to 40°C) |
| | Humidity | 0 – 95%, non-condensing |
| | Weight | 216g (2Feet) 433g (4Feet) 528g (5Feet) |
| Certification and Safety | Certifications | CE, FCC, RoHS, Laser, IP68 |
| | Environment | Not for use in totally enclosed fixtures Suitable for damp location |
| | Warranty | 3 years |
| Two Million Worldwide Product Liability Insurance. | | |

Optical Characteristics

Dominant Wavelength (nm) or Colour Temperature (K)

OSRAM LED chips

| Correlated Colour Temperature | Min. | Typ. | Max. |
|-------------------------------|-------|-------|-------|
| True White | 5000K | 6000K | 7000K |
| Natural White | 3500K | 4000K | 5000K |
| Warm White | 2700K | 3000K | 3500K |

Lamp Luminous Flux

| Chipsets | | OSRAM 3014 plus | | | | |
|-------------------|--------|-----------------|------------|------------|------------|------------|
| LED Qty | | 72 pcs | 96 pcs | 144 pcs | 192 pcs | 192 pcs |
| Power Consumption | | 8W | 10W | 16W | 20W | 20W |
| | | (2 Feet) | (2 Feet) | (4 Feet) | (4 Feet) | (5 Feet) |
| Beam Angle | | 180° | | | | |
| True White | CRI 80 | 1050lm | 1300lm | 2100lm | 2600lm | 2600lm |
| Natural White | CRI 80 | 1000lm | 1250lm | 2000lm | 2500lm | 2500lm |
| Warm White | CRI 80 | 900lm | 1150lm | 1800lm | 2350lm | 2350lm |

Specifications V2 for High PF

| Item | Specification | Details |
|---|------------------------------|--|
| Output | Beam Angle | 180° |
| | Colour Range | TW / NW / WW |
| | Lumen Maintenance | 50,000 hours |
| Electrical | Input Voltage | 100~277V AC |
| | Power Factor | >0.9 |
| | Power Consumption | 10, 21, 42 Watts |
| Physical | Base | <ul style="list-style-type: none"> ● G13 ● G13 90 Degree |
| | Option | single side input is available |
| | Lens | PC |
| | Operating Temperature | -85° F to 104° F (-65°C to 40°C) |
| | Humidity | 0 – 95%, non-condensing |
| | Weight | 242g (2Feet) 434~482g (4Feet) 528~579g (5Feet) |
| Certification and Safety | Certifications | RoHS, Laser CE FCC ETL LVD IP68 |
| | Environment | Not for use in totally enclosed fixtures Suitable for damp location |
| | Warranty | 3 years |
| Two Million Worldwide Product Liability Insurance. | | |

Optical Characteristics

Dominant Wavelength (nm) or Colour Temperature (K)

OSRAM LED chips

| Correlated Colour Temperature | Min. | Typ. | Max. |
|-------------------------------|-------|-------|-------|
| True White | 5000K | 6000K | 7000K |
| Natural White | 3500K | 4000K | 5000K |
| Warm White | 2700K | 3000K | 3500K |

LUXEON LED chips

| Correlated Colour Temperature | Min. | Typ. | Max. |
|-------------------------------|-------|-------|-------|
| True White | 4500K | 5700K | 7000K |
| Natural White | 3500K | 4000K | 4500K |
| Warm White | 2500K | 3000K | 3500K |

Lamp Luminous Flux

| Chipsets | Lumileds 3535-L(HPF) | | | | | | |
|-------------------|-----------------------|-----------------|-----------------|-----------------|-----------------|-----------------|--------|
| LED Qty | 48 pcs | 48 pcs | 96 pcs | 96 pcs | 120 pcs | 120 pcs | |
| Power Consumption | 10W (2 Feet) | 21W (2 Feet) | 21W (4 Feet) | 42W (4 Feet) | 21W (5 Feet) | 42W (5 Feet) | |
| Beam Angle | 180° | | | | | | |
| True White | CRI82 | 1250lm | 2400lm | 2700lm | 4800lm | 2850lm | 4950lm |
| Natural White | CRI 82 | 1200lm | 2250lm | 2600lm | 4550lm | 2750lm | 4700lm |
| | CRI 92 | 1000lm | 1850lm | 2100lm | 3700lm | 2250lm | 3850lm |
| Warm White | CRI 82 | 1100lm | 2150lm | 2450lm | 4300lm | 2600lm | 4450lm |
| | CRI 92 | 900lm | 1750lm | 2000lm | 3500lm | 2150lm | 3650lm |

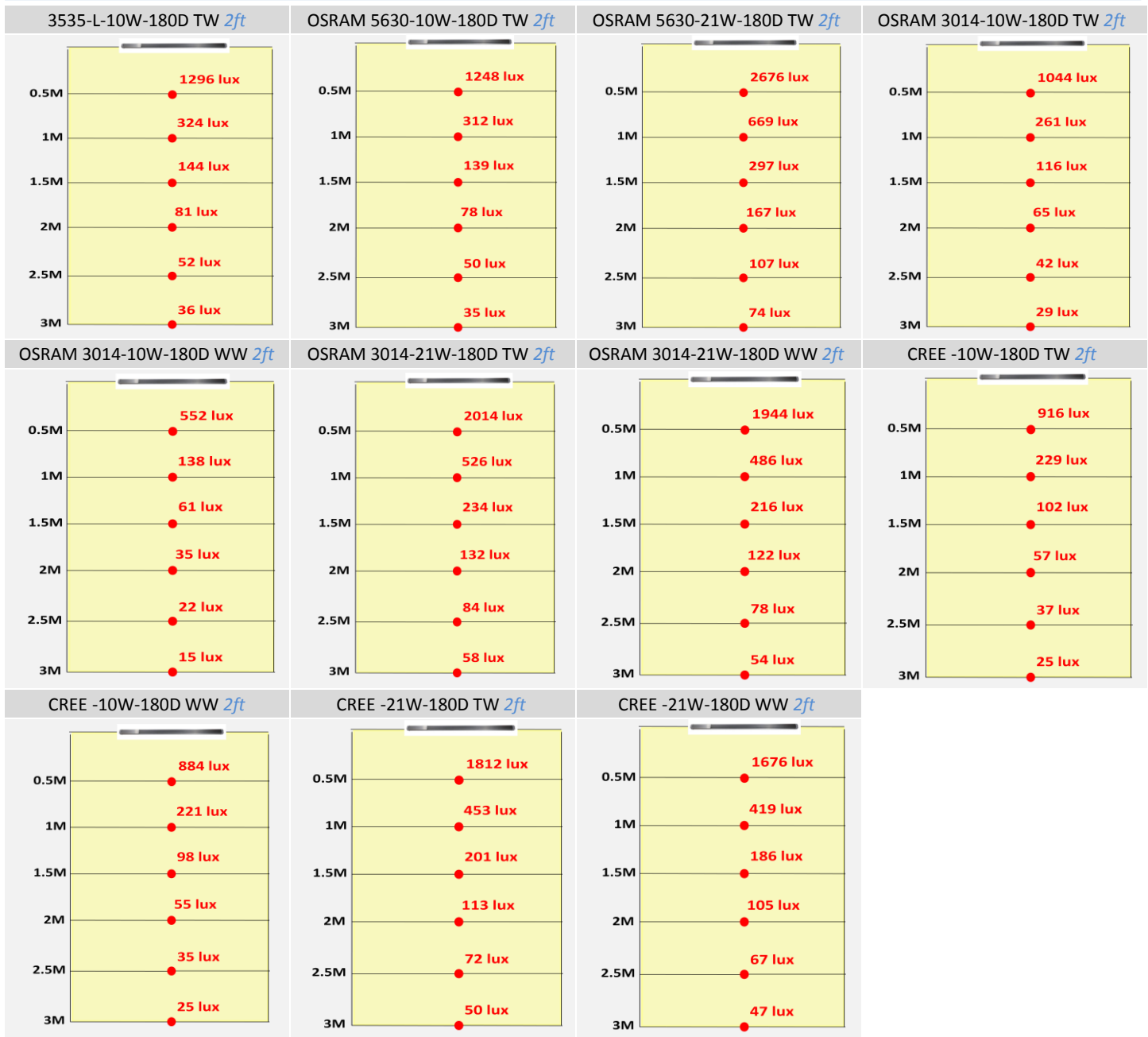
| Chipsets | | OSRAM 3014 plus(HPF) | | |
|-------------------|--------|-----------------------|----------|----------|
| LED Qty | | 96 pcs | 192 pcs | 192 pcs |
| Power Consumption | | 10W | 21W | 21W |
| | | (2 Feet) | (4 Feet) | (5 Feet) |
| Beam Angle | | 180° | | |
| True White | CRI 80 | 1300lm | 2700lm | 2700lm |
| Natural White | CRI 80 | 1250lm | 2650lm | 2650lm |
| Warm White | CRI 80 | 1100lm | 2550lm | 2550lm |

| Chipsets | | OSRAM 5630(HPF) | | | | | |
|-------------------|--------|------------------|----------|----------|----------|----------|----------|
| LED Qty | | 48 pcs | 48 pcs | 96 pcs | 96 pcs | 96 pcs | 96 pcs |
| Power Consumption | | 10W | 21W | 21W | 42W | 21W | 42W |
| | | (2 Feet) | (2 Feet) | (4 Feet) | (4 Feet) | (5 Feet) | (5 Feet) |
| Beam Angle | | 180° | | | | | |
| True White | CRI 80 | 1100lm | 2100lm | 2400lm | 4200lm | 2400lm | 4200lm |
| Natural White | CRI 80 | 1000lm | 1900lm | 2200lm | 3850lm | 2200lm | 3850lm |
| Warm White | CRI 80 | 900lm | 1750lm | 2000lm | 3500lm | 2000lm | 3500lm |

Illuminance at Distance for Clear Lens

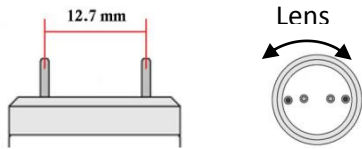


Illuminance at Distance for Linear Fresnel Lens

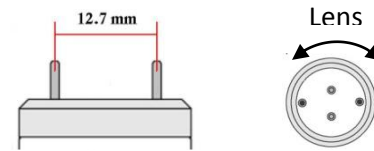


Mechanical Dimensions

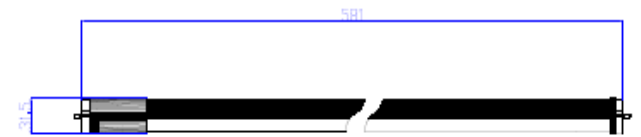
G13



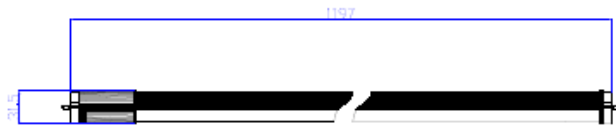
G13 90 Degree



2FT 21W (Asia & EU)



4FT 21W



5FT 21W



4FT 42W



5FT 42W



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