

V4 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 V4 for Standard

	Specification	Details
Output	Beam Angle	180°
	Colour Range	TW / NW / WW
	Lumen Maintenance	50,000 hours
Electrical	Input Voltage	100 ~ 240V AC
	Power Consumption	6, 8, 10, 16, 20 Watts
Physical	Base	<ul style="list-style-type: none"> <li>● G13</li> <li>● R17D (Adapter)</li> <li>● G13 90 Degree</li> </ul>
	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	139g (1Feet) 216g (2Feet) 336g (3Feet) 433g (4Feet) 528g (5Feet)
Certification and Safety	Certifications	<b>CE, FCC, RoHS, Laser, IP68</b>
	Environment	Not for use in totally enclosed fixtures Suitable for damp location
	Warranty	3 years
<b>Two Million Worldwide Product Liability Insurance.</b>		

## 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

## Chipset Luminous Flux

Chipsets		OSRAM 3014 plus						
LED Qty		48 pcs	72 pcs	96 pcs	144 pcs	144 pcs	192 pcs	192 pcs
Power Consumption		6W	8W	10W	16W	16W	20W	20W
		( 1 Feet )	( 2 Feet )	( 2 Feet )	( 3 Feet )	( 4 Feet )	( 4 Feet )	( 5 Feet )
Beam Angle		180°						
True White	CRI 80	880lm	1250lm	1550lm	2500lm	2500lm	3100lm	3100lm
Natural White	CRI 80	850lm	1200lm	1500lm	2400lm	2400lm	3000lm	3000lm
Warm White	CRI 80	800lm	1100lm	1400lm	2200lm	2200lm	2800lm	2800lm

## Specifications V4 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
	<b>Power Factor</b>	<b>&gt;0.9</b>
	Power Consumption	10, 16, 21, 32, 42 Watts
Physical	Base	<ul style="list-style-type: none"> <li>● G13</li> <li>● R17D (Adapter)</li> <li>● G13 90 Degree</li> </ul>
	Option	single side input is available
	Lens	PC
	<b>Operating Temperature</b>	-4° F to 104° F (-20°C to 40°C) <b>-85° F to 104° F (-65°C to 40°C)</b> (Optional)
	Humidity	0 – 95%, non-condensing
	Weight	242g (2Feet) 337g (3Feet) 434~482g (4Feet) 528~579g (5Feet) 664g (6Feet) 860g (8Feet)
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
<b>Two Million Worldwide Product Liability Insurance.</b>		

## 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

## Chipset Luminous Flux

Chipsets		OSRAM 5630( HPF)							
LED Qty		48 pcs	96 pcs	48 pcs	96 pcs	96 pcs	96 pcs	144 pcs	192 pcs
Power Consumption		10W	21W	21W	42W	21W	42W	42W	42W
		(2 Feet)	(4 Feet)	(2 Feet)	(4 Feet)	(5 Feet)	(5 Feet)	(6 Feet)	(8 Feet)
Beam Angle		180°							
True White	CRI80	1200lm	2800lm	2600lm	5200lm	2800lm	5200lm	5400lm	5600lm
Natural White	CRI 80	1100lm	2600lm	2400lm	4800lm	2600lm	4800lm	5200lm	5200lm
Warm White	CRI 80	1000lm	2400lm	2200lm	4400lm	2400lm	4400lm	4600lm	4800lm

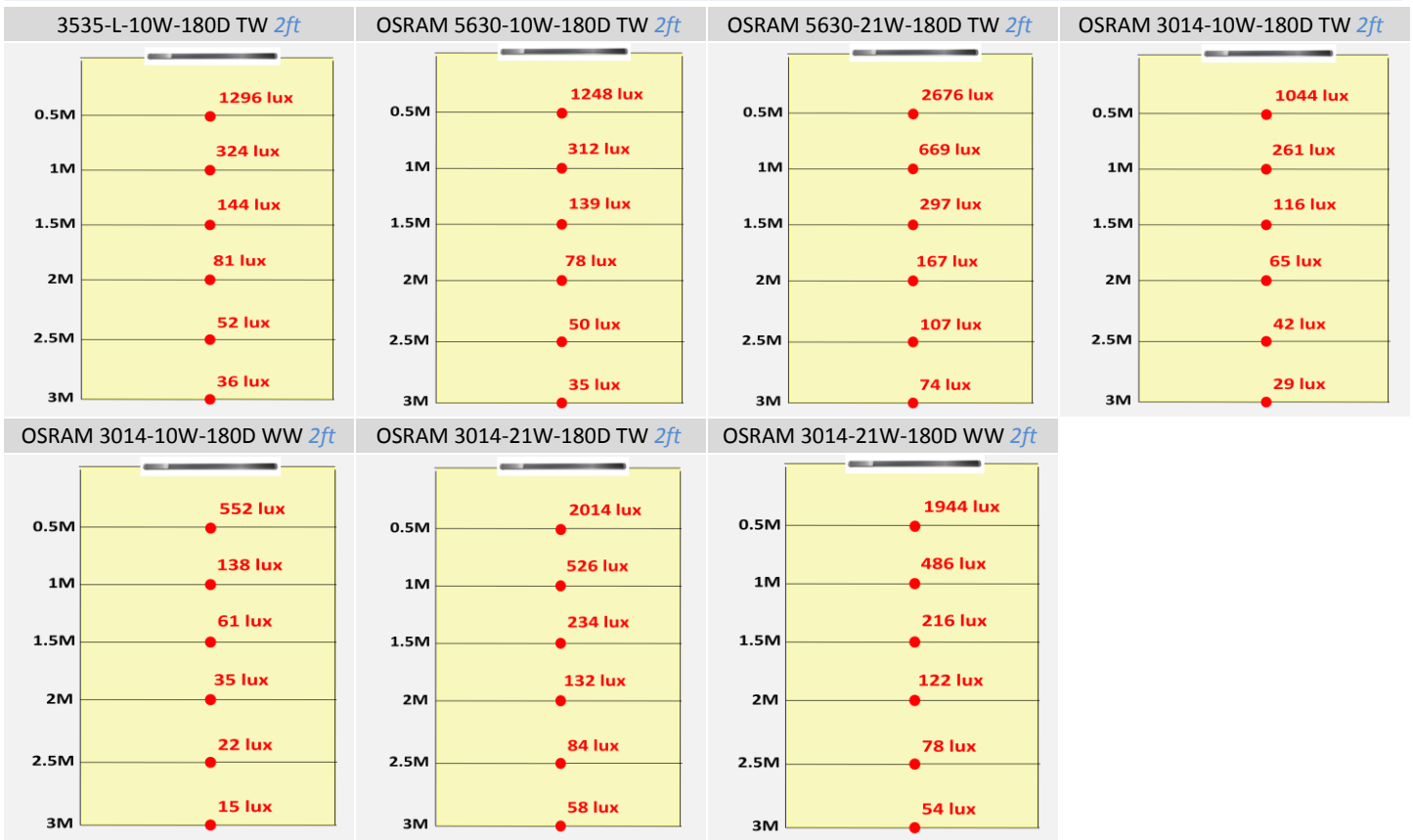
Chipsets		Lumileds 3535-L( HPF)					
LED Qty		48 pcs	96 pcs	48 pcs	96 pcs	120 pcs	120 pcs
Power Consumption		10W	21W	21W	42W	21W	42W
		(2 Feet)	(4 Feet)	(2 Feet)	(4 Feet)	(5 Feet)	(5 Feet)
Beam Angle		180°					
True White	CRI82	1450lm	3000lm	2750lm	5500lm	3200lm	5700lm
Natural White	CRI 82	1400lm	2900lm	2650lm	5300lm	3100lm	5500lm
	CRI 92	1150lm	2350lm	2150lm	4300lm	2500lm	4450lm
Warm White	CRI 82	1300lm	2700lm	2500lm	5000lm	2900lm	5200lm
	CRI 92	1050lm	2200lm	2000lm	4000lm	2350lm	4150lm

Chipsets		OSRAM 3014 plus (HPF)						
LED Qty		96 pcs	96 pcs	144 pcs	192 pcs	192 pcs	288 pcs	384 pcs
Power Consumption		10W	21W	16W	21W	21W	32w	42W
		(2 Feet)	(2 Feet)	(3 Feet)	(4 Feet)	(5 Feet)	(6 Feet)	(8 Feet)
Beam Angle		180°						
True White	CRI 80	1550lm	3000lm	2500lm	3300lm	3300lm	5000lm	6600lm
Natural White	CRI 80	1500lm	2900lm	2400lm	3200lm	3200lm	4800lm	6400lm
Warm White	CRI 80	1400lm	2700lm	2200lm	3000lm	3000lm	4400lm	6000lm

## Illuminance at Distance for Clear Lens

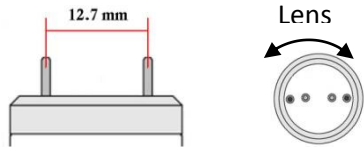


## Illuminance at Distance for Linear Fresnel Lens

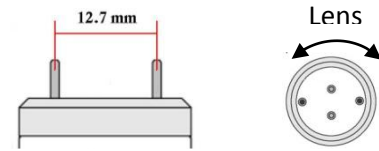


# Mechanical Dimensions

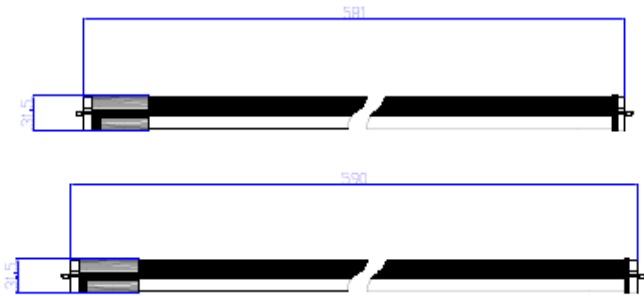
## G13



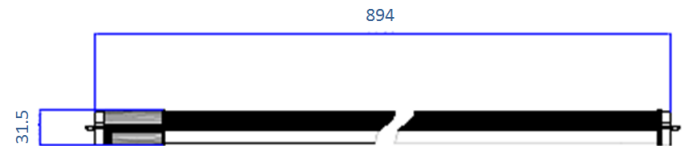
## G13 90 Degree



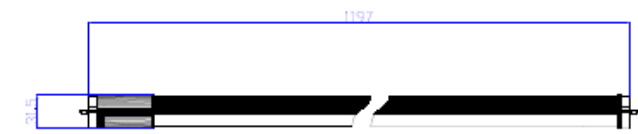
### 2FT 21W (Asia & EU)



### 3FT 21W



### 4FT 21W



### 4FT 42W



### 5FT 21W



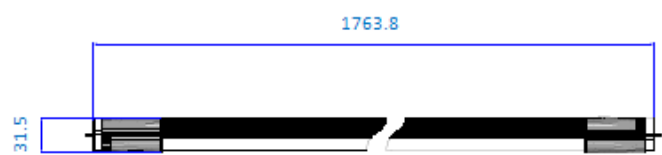
### 5FT 42W



### 6FT 32W



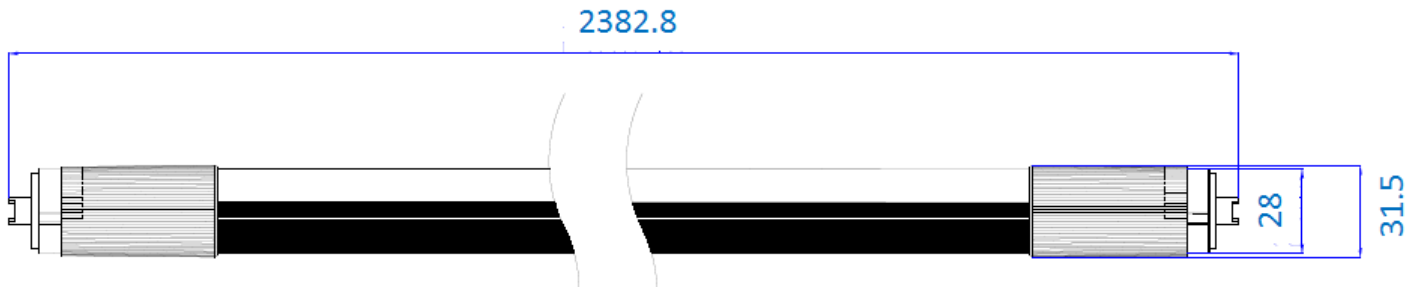
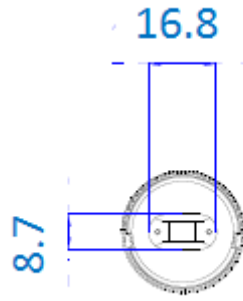
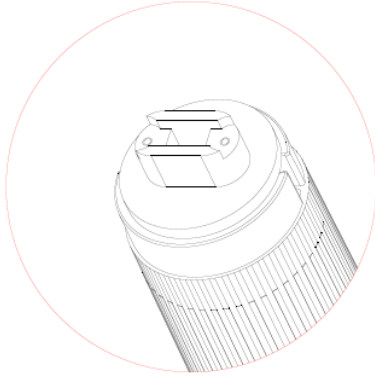
### 6FT 42W



### 8FT 42W



# T8 R17D



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