

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

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	6, 8, 10, 16, 20 Watts
Physical	Base	<ul style="list-style-type: none"> ● G13 ● R17D (Adapter) ● 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	139g (1Feet) 216g (2Feet) 336g (3Feet) 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		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	720lm	1050lm	1300lm	2100lm	2100lm	2600lm	2600lm
Natural White	CRI 80	700lm	1000lm	1250lm	2000lm	2000lm	2500lm	2500lm
Warm White	CRI 80	660lm	900lm	1150lm	1800lm	1800lm	2350lm	2350lm

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
	Power Factor	>0.9
	Power Consumption	10, 16, 21, 32, 42 Watts
Physical	Base	<ul style="list-style-type: none"> ● G13 ● R17D (Adapter) ● G13 90 Degree
	Option	single side input is available
	Lens	PC
	Operating Temperature	-4° F to 104° F (-20°C to 40°C) -85° F to 104° F (-65°C to 40°C)
	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
	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

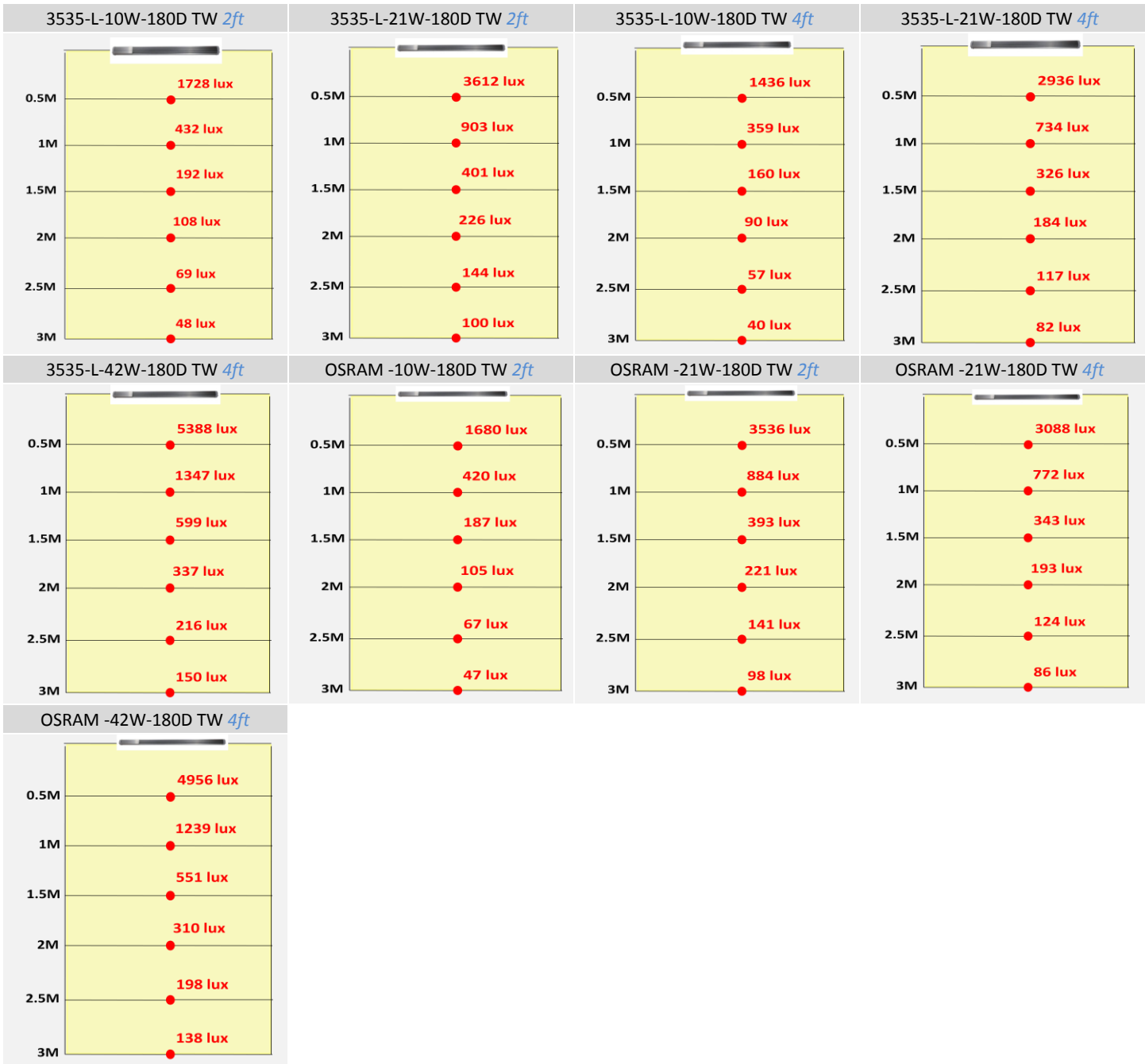
Lamp Luminous Flux

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

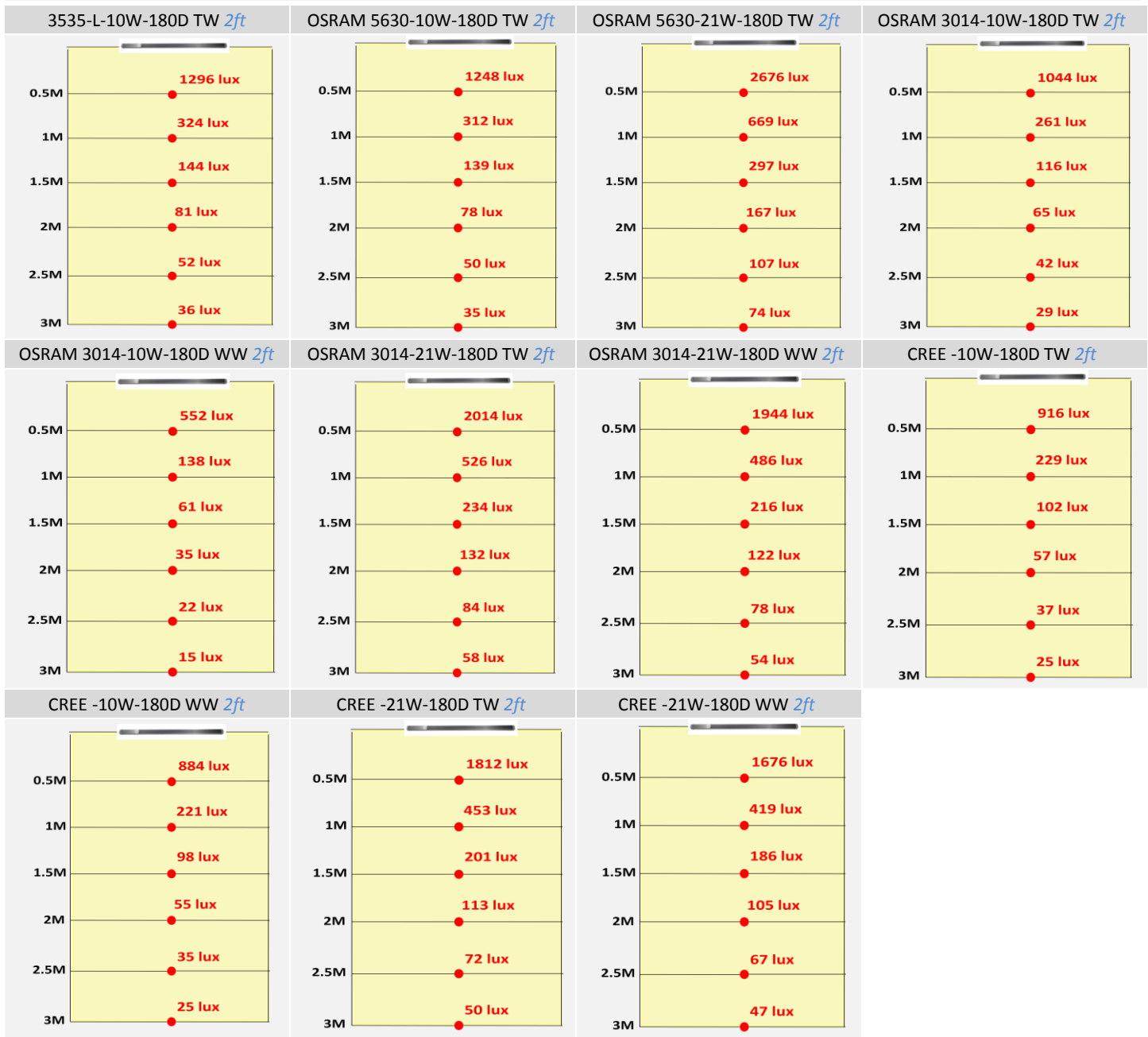
Chipsets		OSRAM 5630(HPF)							
LED Qty		48 pcs	48 pcs	96 pcs	96 pcs	96 pcs	96 pcs	144 pcs	192 pcs
Power Consumption		10W	21W	21W	42W	21W	42W	42w	42w
		(2 Feet)	(2 Feet)	(4 Feet)	(4 Feet)	(5 Feet)	(5 Feet)	(6 Feet)	(8 Feet)
Beam Angle		180°							
True White	CRI 80	1100lm	2100lm	2400lm	4200lm	2400lm	4200lm	4600lm	4800lm
Natural White	CRI 80	1000lm	1900lm	2200lm	3850lm	2200lm	3850lm	4200lm	4400lm
Warm White	CRI 80	900lm	1750lm	2000lm	3500lm	2000lm	3500lm	3800lm	4000lm

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	1300lm	2500lm	2100lm	2700lm	2700lm	4200lm	5400lm	
Natural White	CRI 80	1250lm	2400lm	2000lm	2650lm	2650lm	4000lm	5300lm	
Warm White	CRI 80	1100lm	2300lm	1800lm	2550lm	2550lm	3600lm	5100lm	

Illuminance at Distance for Clear Lens

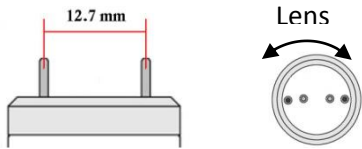


Illuminance at Distance for Linear Fresnel Lens

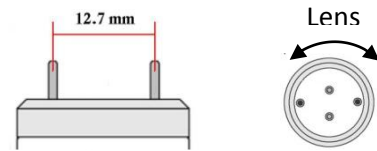


Mechanical Dimensions

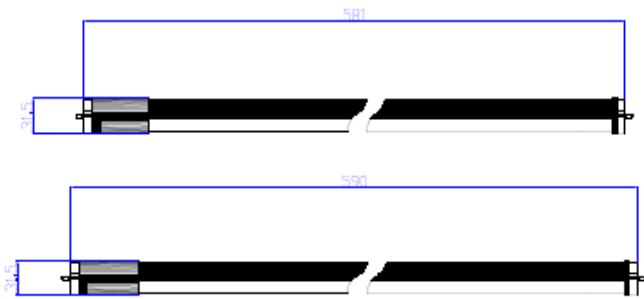
G13



G13 90 Degree



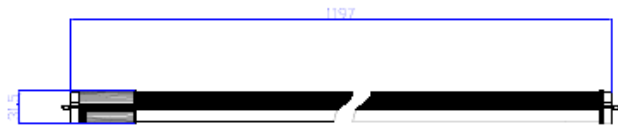
2FT 21W (Asia & EU)



3FT 21W



4FT 21W



4FT 42W



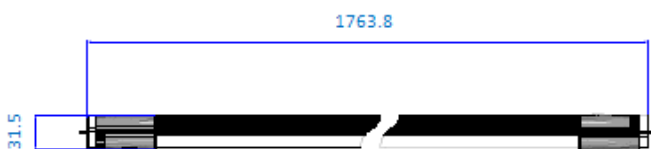
5FT 21W



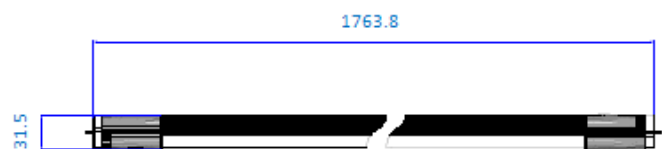
5FT 42W



6FT 32W



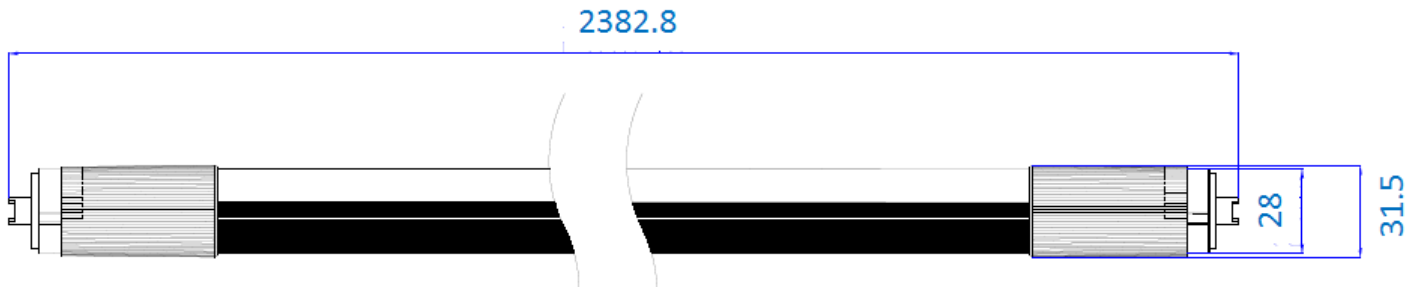
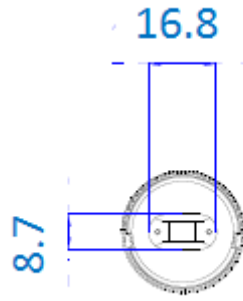
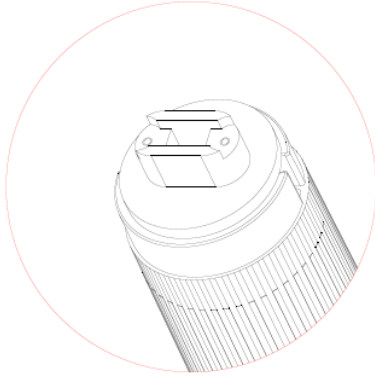
6FT 42W



8FT 42W



T8 R17D



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