

V3 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 , 4-feet and 5-feet versions and 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



Intertek
3186663

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

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	<div><div></div><div>• G13</div><div>• G13 90 Degree</div></div>
	Option	single side input is available
	Weight	180 g (8W, 10W - 2 Feet)
		360 g (16W, 20W - 4 Feet)
		450 g (20W - 5 Feet)
	Lens	Optics PMMA
Certification and Safety	Operating Temperature	-40° F to 104° F (-40°C to 40°C)
	Humidity	0 – 95%, non-condensing
	Certifications	CE, FCC, RoHS
	Environment	Not for use in totally enclosed fixtures Suitable for damp location
	Warranty	3 years
Option	single side input is available	
	Two Million Worldwide Product Liability Insurance.	

Optical Characteristics

Dominant Wavelength (nm) or Colour Temperature (K)

CREE LED Chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	4500K	6000K	10000K
Natural White	3500K	4000K	4500K
Warm White	2700K	3000K	3500K

OSRAM LED chips

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

EPISTAR LED chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	5000K	6000K	7000K
Warm White	2500K	3000K	3500K

SEOUL LED Chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	4500K	6000K	7200K
Warm White	2500K	3000K	3250K

Chipset Luminous Flux

Chipsets		CREE CLA1A			
LED Qty		72 pcs	96 pcs	144 pcs	192 pcs
Power Consumption		8W (2 Feet)	10W (2 Feet)	16W (4 Feet)	20W (4 Feet)
Beam Angle		180°			
True White	CRI 80	800 lm	1000 lm	1600 lm	2000 lm
Warm White	CRI 80	700 lm	800 lm	1400 lm	1600 lm

Chipsets		CREE CLA1B				
LED Qty		72 pcs	96 pcs	144 pcs	192 pcs	192 pcs
Power Consumption		8W (2 Feet)	10W (2 Feet)	16W (4 Feet)	20W (4 Feet)	20W (5 Feet)
Beam Angle		180°				
True White	CRI 75	1000 lm	1200 lm	2000 lm	2400 lm	2400 lm
Natural White	CRI 80	900 lm	1100 lm	1800 lm	2200 lm	2200 lm
Warm White	CRI 80	800 lm	1000 lm	1600 lm	2000 lm	2000 lm

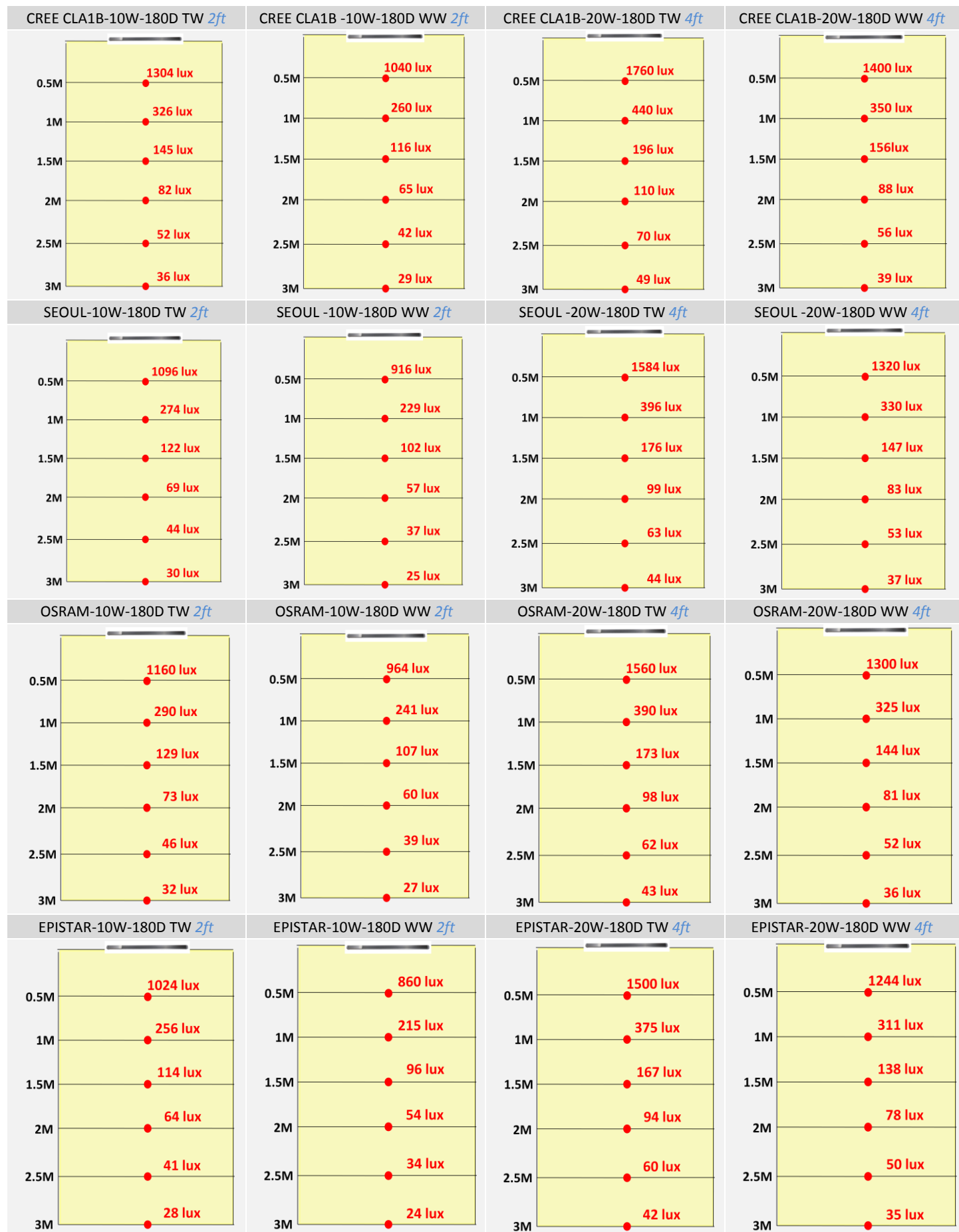
Chipsets		SEOUL				
LED Qty		36 pcs	48 pcs	72 pcs	96 pcs	96 pcs
Power Consumption		8W (2 Feet)	10W (2 Feet)	16W (4 Feet)	20W (4 Feet)	20W (5 Feet)
Beam Angle		180°				
True White	CRI 80	950 lm	1200 lm	1900 lm	2400 lm	2400 lm
Warm White	CRI 80	800 lm	1000 lm	1600 lm	2000 lm	2000 lm

Chipsets		OSRAM Duris E3 LED				
LED Qty		72 pcs	96 pcs	144 pcs	192 pcs	192 pcs
Power Consumption		8W (2 Feet)	10W (2 Feet)	16W (4 Feet)	20W (4 Feet)	20W (5 Feet)
Beam Angle		180°				
True White	CRI 80	950 lm	1200 lm	1900 lm	2400 lm	2400 lm
Natural White	CRI 80	900 lm	1100 lm	1800 lm	2200 lm	2200 lm
Warm White	CRI 80	800 lm	1000 lm	1600 lm	2000 lm	2000 lm

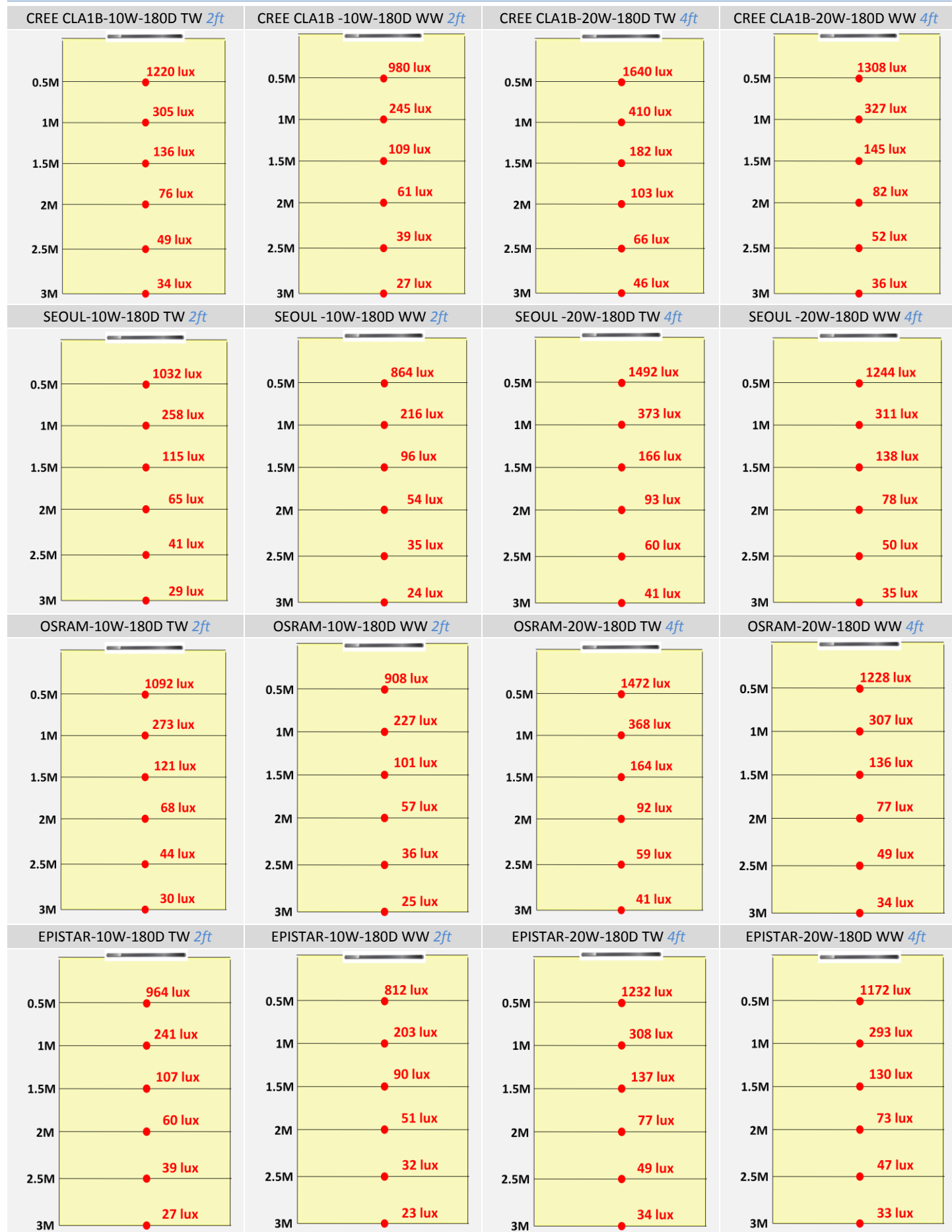
Chipsets		EPISTAR		
LED Qty		96 pcs	192 pcs	192 pcs
Power Consumption		10W (2 Feet)	20W (4 Feet)	20W (5 Feet)
Beam Angle		180°		
True White	CRI 70	950 lm	1900 lm	1900 lm
Warm White	CRI 70	800 lm	1600 lm	1600 lm

✂All Chipset Luminous Flux Data are indicated in max values.

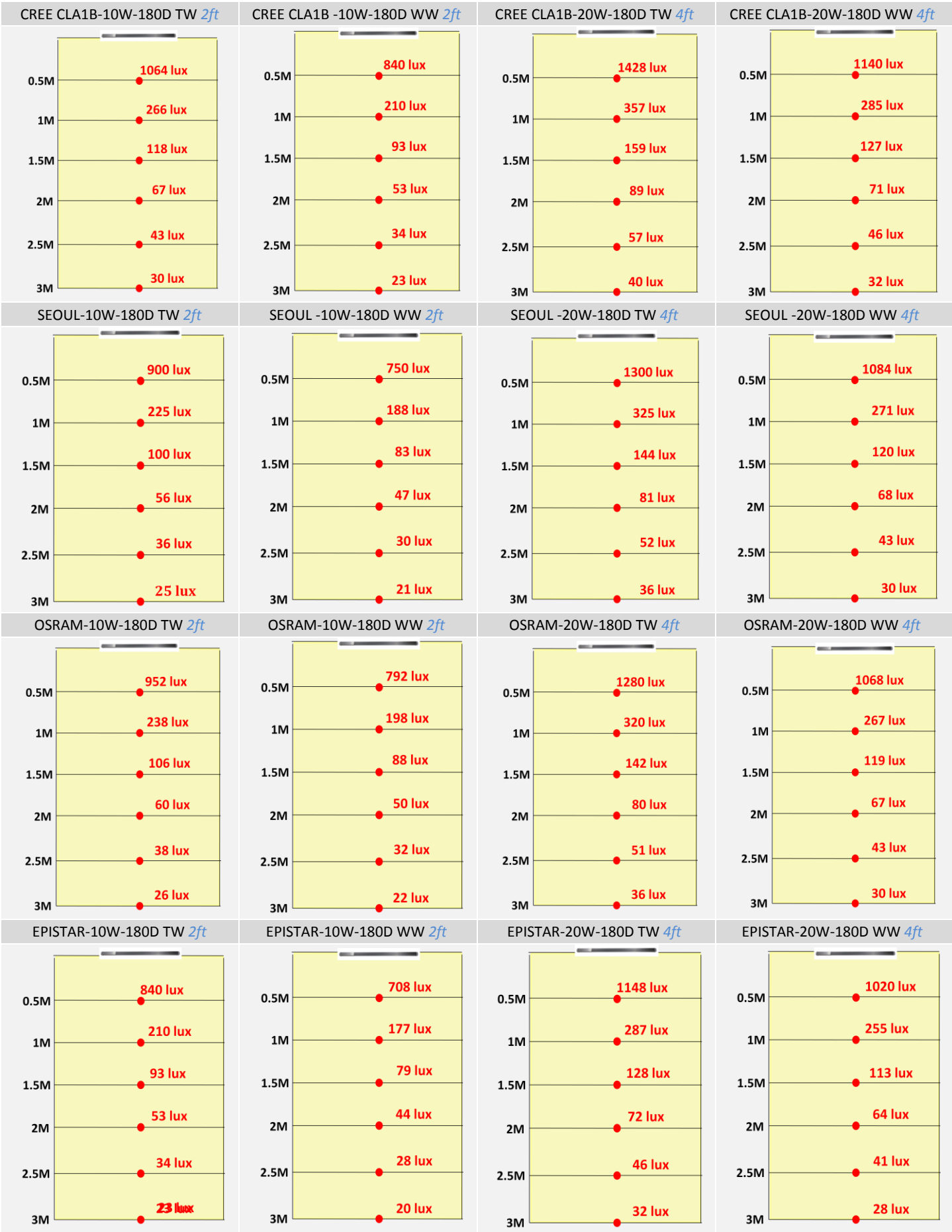
Illuminance at Distance for Clear Lens



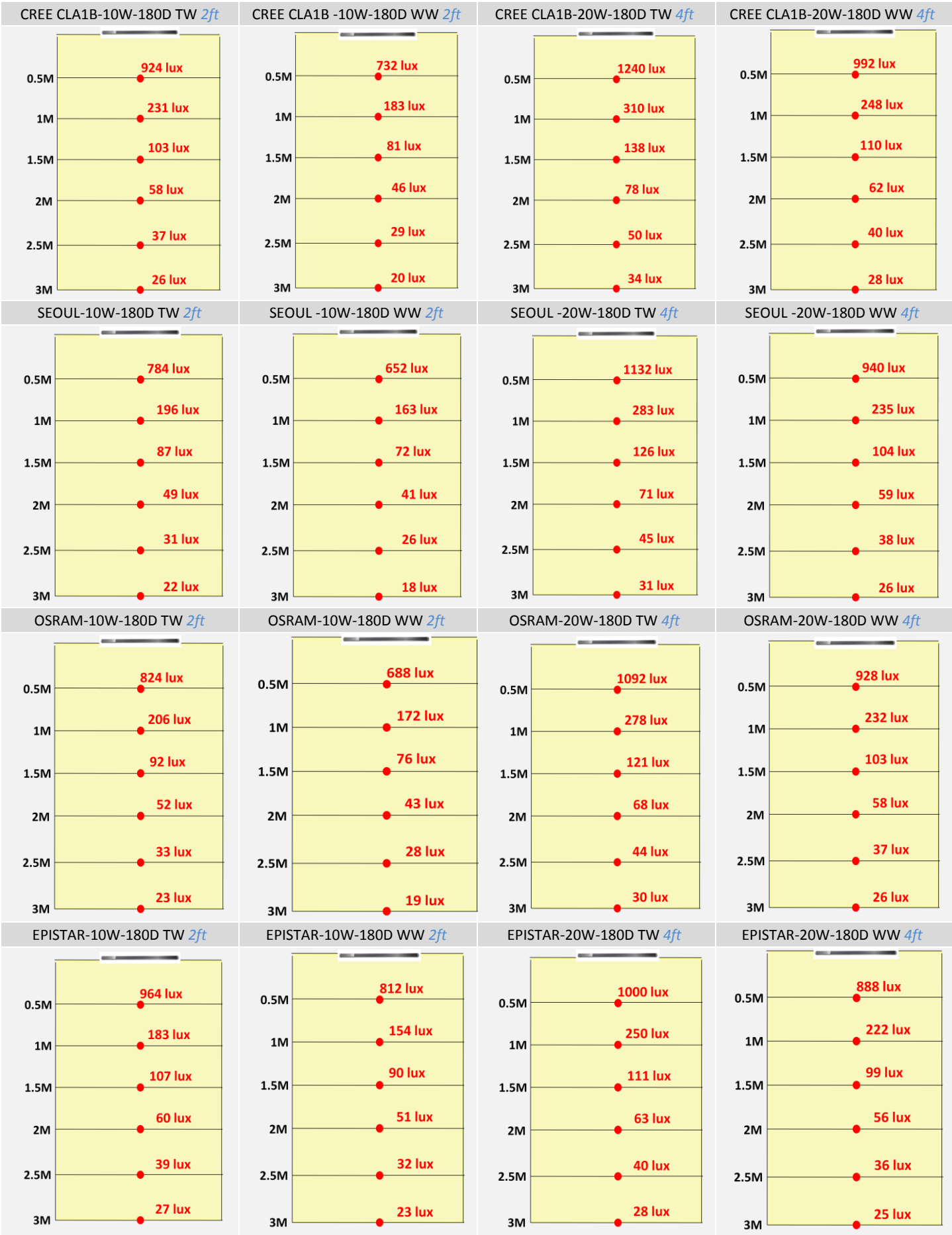
Illuminance at Distance for Semi-Frosted Lens



Illuminance at Distance for Frosted Lens

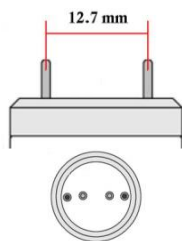


Illuminance at Distance for Fully Frosted Lens

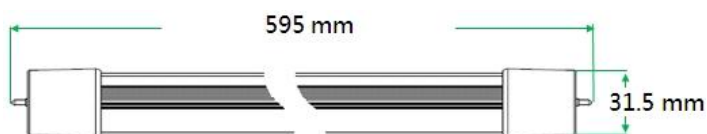
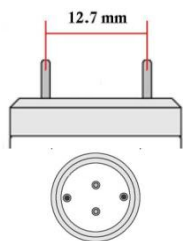


Mechanical Dimensions

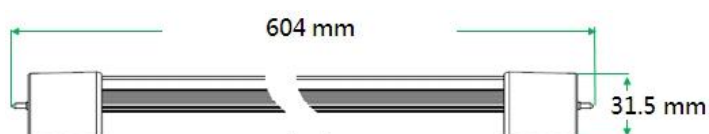
G13



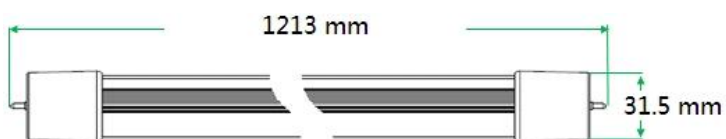
G13 90 Degree



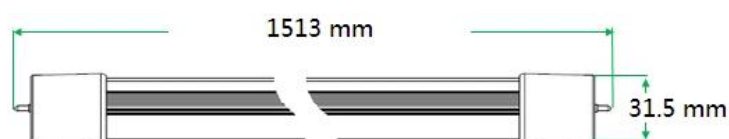
Compliant with Asian specifications (T01 2-Foot)



Compliant with Australian and European specifications (T02 2-Foot)



Compliant with Asian specifications (T03 4-Foot)



(T04 5-Foot)