

AR111



ALTLED®
Orion

Series

Specification Sheet

Product Introduction

ALT Orion Series AR111 LED owns the most choices of angles and the widest range of color temperatures to create colourful lighting effects. It uses the aerospace-industrial level of cooling technology with the longest span life up to 50,000 hours. It also uses the world-class Chips and the 12W ALT AR111 LED instead of the 100W traditional halogen bulbs to save up to 90% of energy which creates more fun on shopping and keeps the finest moment for all works of art.

Certificates



Features

- ✓ Elegant, rich and long-lasting lighting output ideal for Interior design.
- ✓ High density aluminum increase heat dissipation.
- ✓ Up to 90% energy saving compared to standard halogen lamp

Application

- ✓ Shopping Mall Lighting
- ✓ Boutique Lighting
- ✓ Showcase Lighting



Specifications

Item	Specification	Details
Output	Beam Angle	20°, 24°, 30°, 45°, 50°, 60°, 90°, 135°
	Colour Range	TW / NW / WW
	Lumen Maintenance	50,000 hours
Electrical	Input Voltage	12V AC/DC
	Power Consumption	12, 15 Watts
Physical	Bases	· G53
	Weight	8.82 oz. (250 g)
	Lens	Optics PMMA
	Operating Temperature	-4° F to 104° F (-20°C to 40°C)
Certification and Safety	Humidity	0 – 95%, non-condensing
	Certifications	CE, FCC, RoHS, Laser Testing
	Environment	Not for use in totally enclosed fixtures Suitable for damp location
	Warranty	3 years
Two Million Worldwide Product Liability Insurance.		

Chipset Luminous Flux

Chipsets		CREE XP-E		LUXEON Rebel	
Power Consumption		12W	15W	12W	15W
Beam Angle		50% 20° / 30° / 45° / 60° / 90° / 135°			
True White	CRI 80	980 lm	1150 lm	980 lm	1150 lm
Natural White	CRI 80	850 lm	990 lm	850 lm	990 lm
Warm White	CRI 80	750 lm	870 lm	750 lm	870 lm
	CRI 90	-	-	600 lm	700 lm

Chipsets		CREE XP-G		LUXEON Rebel ES	
Power Consumption		12W	15W	12W	15W
Beam Angle		50% 24° / 30° / 50° / 60° / 90° / 135°			
True White	CRI 80	1150 lm	1400 lm	1150 lm	1400 lm
Natural White	CRI 80	970 lm	1200 lm	970 lm	1200 lm
Warm White	CRI 80	850 lm	1070 lm	850 lm	1070 lm
	CRI 90	-	-	680 lm	860 lm

Chipsets		EPISTAR	
Power Consumption		12W	
Beam Angle		50% 45° / 60° / 90°	
True White	CRI 98	700 lm	
Warm White	CRI 98	550 lm	

Chipsets		CREE XT-E	
Power Consumption		12W	15W
Beam Angle		50% 20° / 30° / 45° / 60°	
True White	CRI 70	1250 lm	1600 lm
Natural White	CRI 80	1100 lm	1300 lm
Warm White	CRI 80	970 lm	1150 lm
	CRI 90	850 lm (2200K)	1050 lm (2200K)
		770 lm	920 lm

Chipsets		OSRAM Square	
Power Consumption		15W	
Beam Angle		50% 25° / 38° / 45° / 60° / 90° / 135°	
True White	CRI 70	1650 lm	
Natural White	CRI 70	1450 lm	
Warm White	CRI 80	1200 lm	
	CRI 92	960 lm	

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

Optical Characteristics

Dominant Wavelength (nm) or Colour Temperature (K)

LUXEON LED Chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	5000K	6000K	6500K
Natural White	3500K	4500K	5000K
Warm White	2700K	3000K	3500K

EPISTAR Chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	5000K	5500K	5700K
Warm White	2870K	3000K	3220K

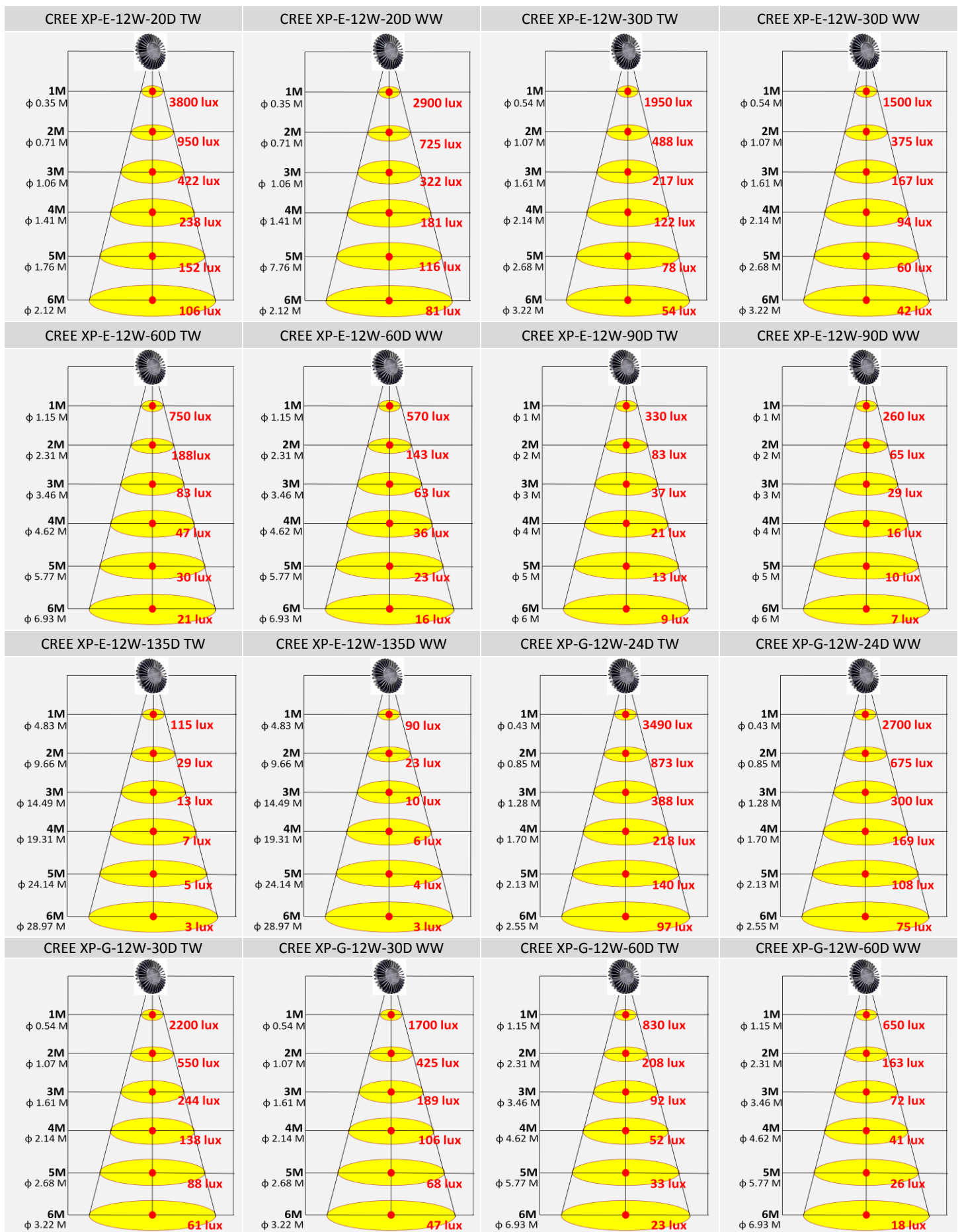
CREE LED Chips

Correlated Colour Temperature	Min.	Typ.	Max.
True White	5000K	6000K	6500K
Natural White	3500K	4500K	5000K
Warm White	2100K	3000K	3500K

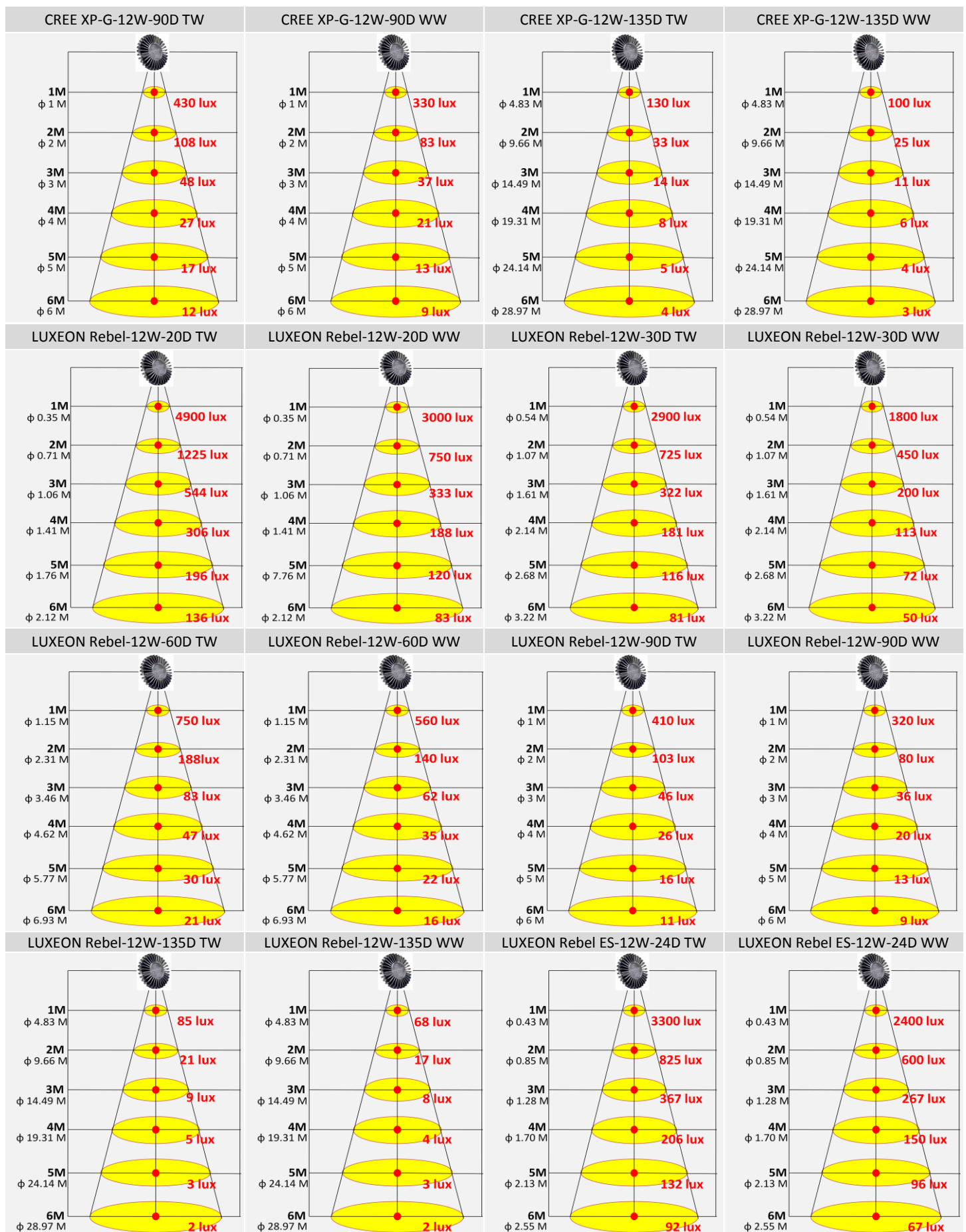
OSRAM LED Chips

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

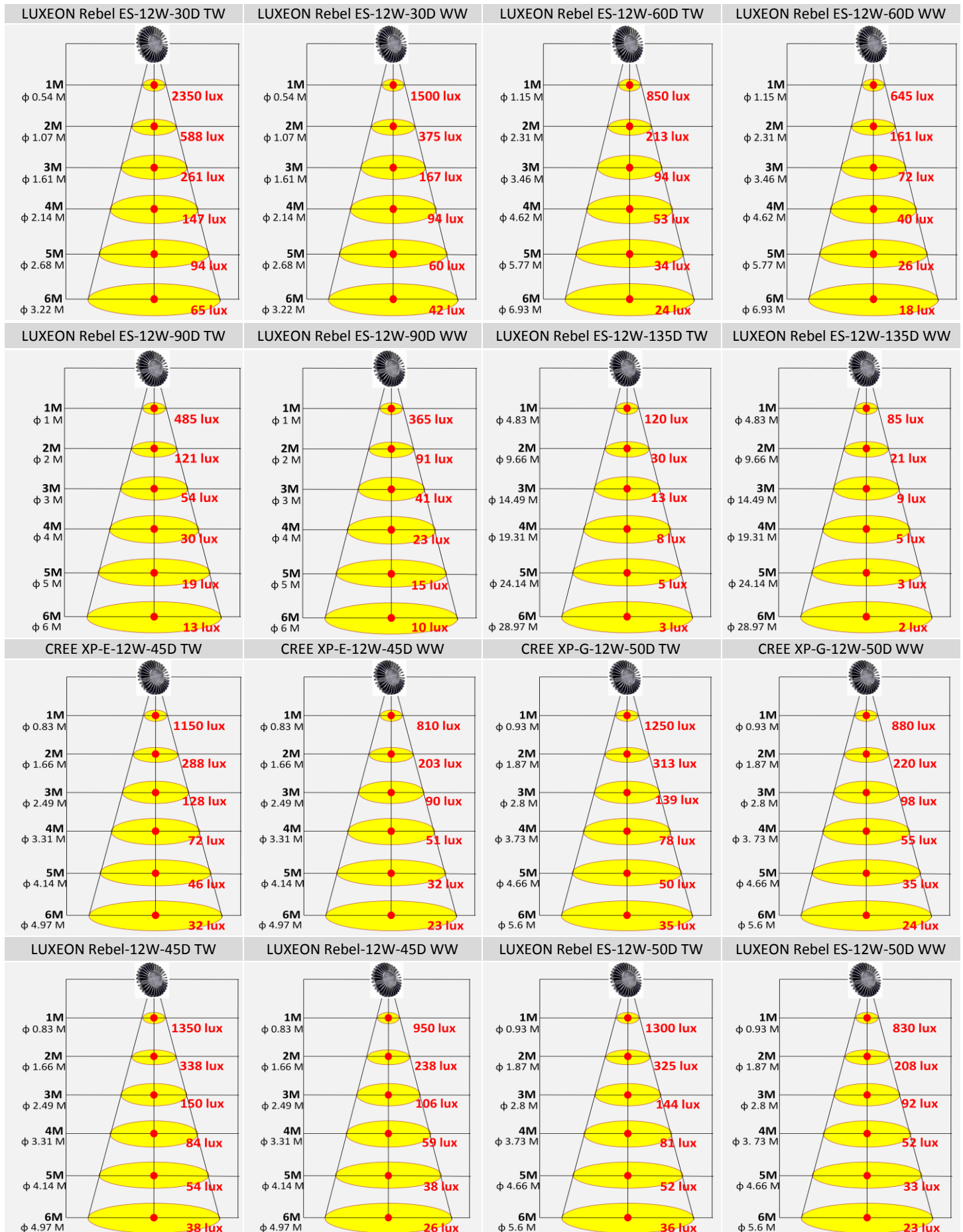
Illuminance at Distance



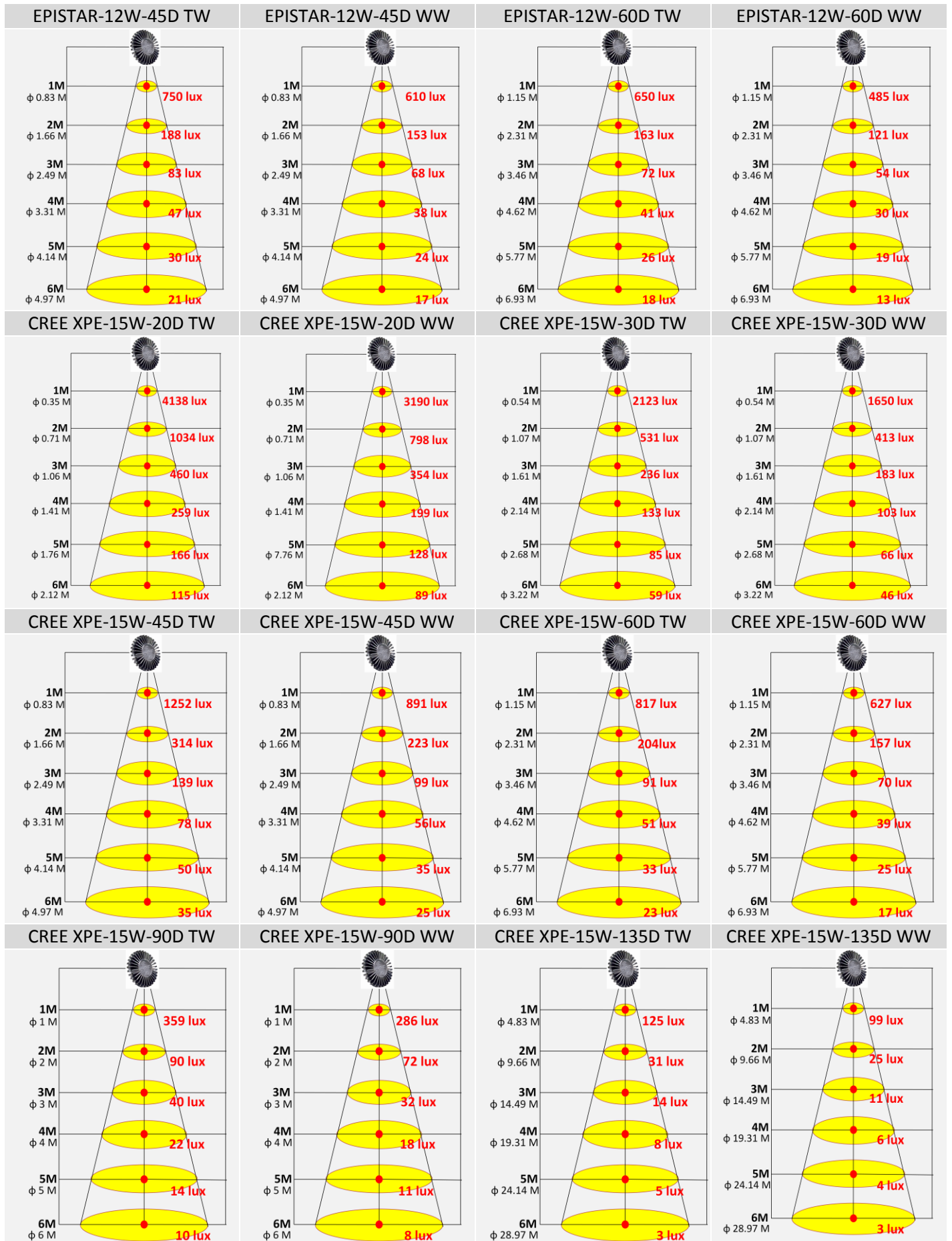
Illuminance at Distance



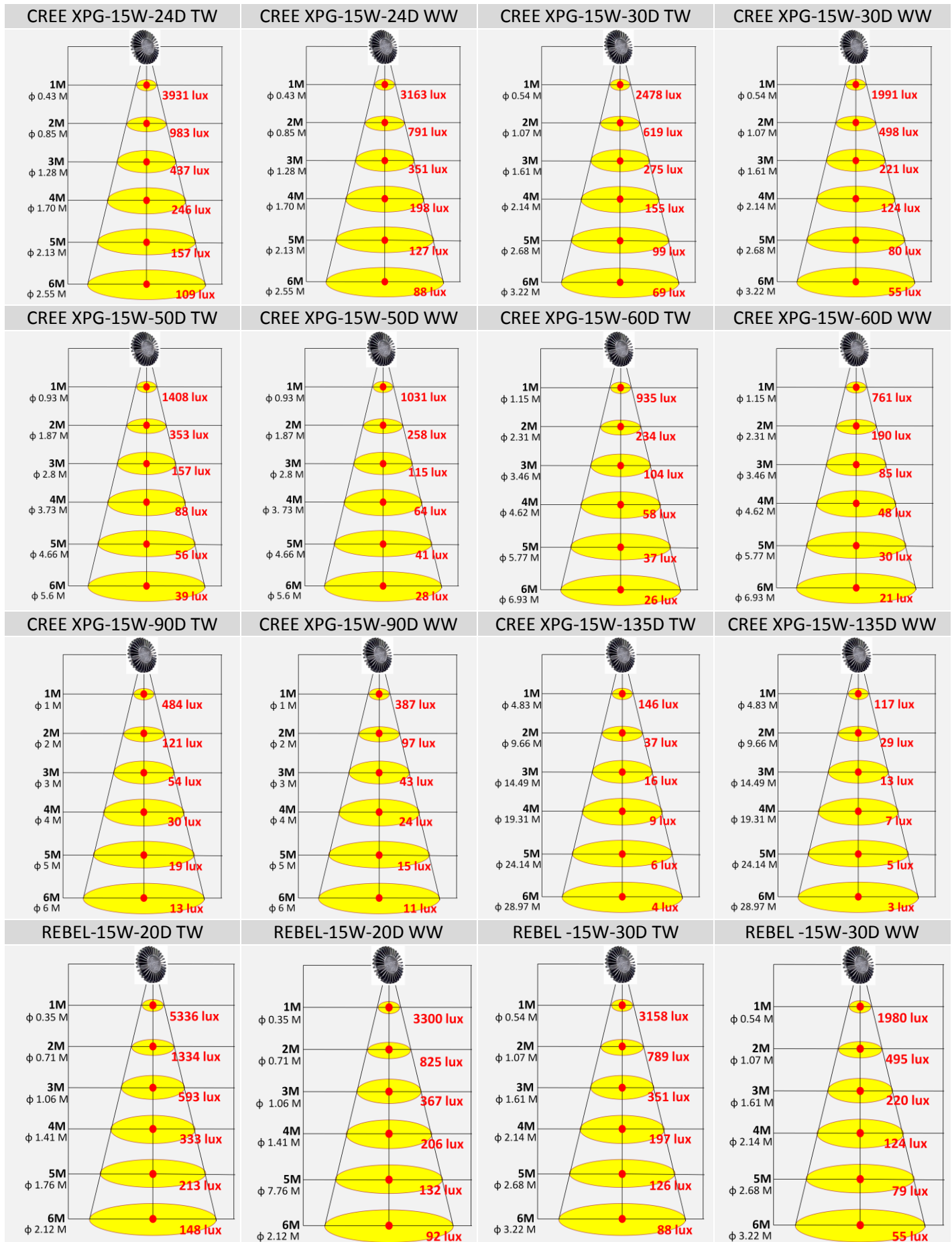
Illuminance at Distance



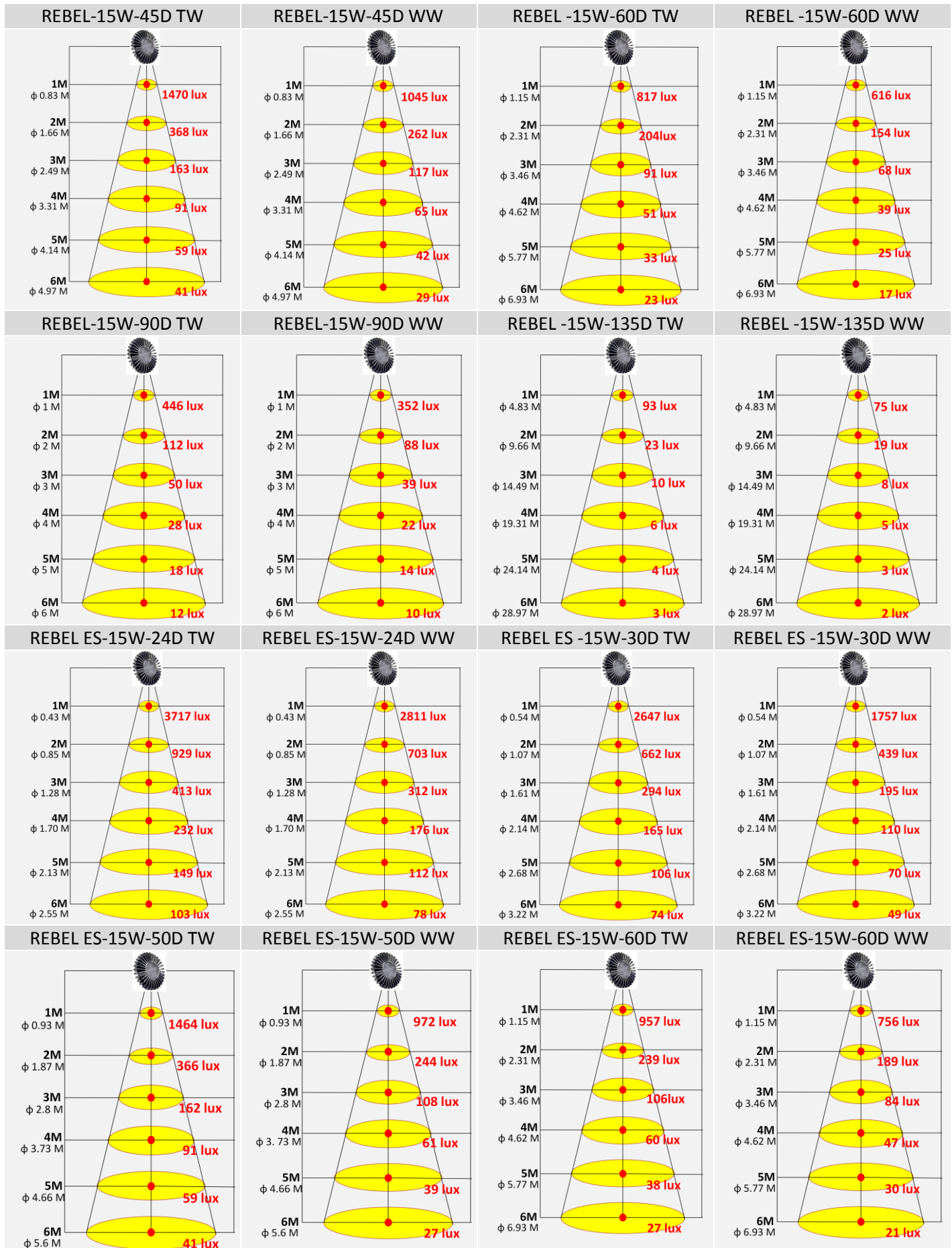
Illuminance at Distance



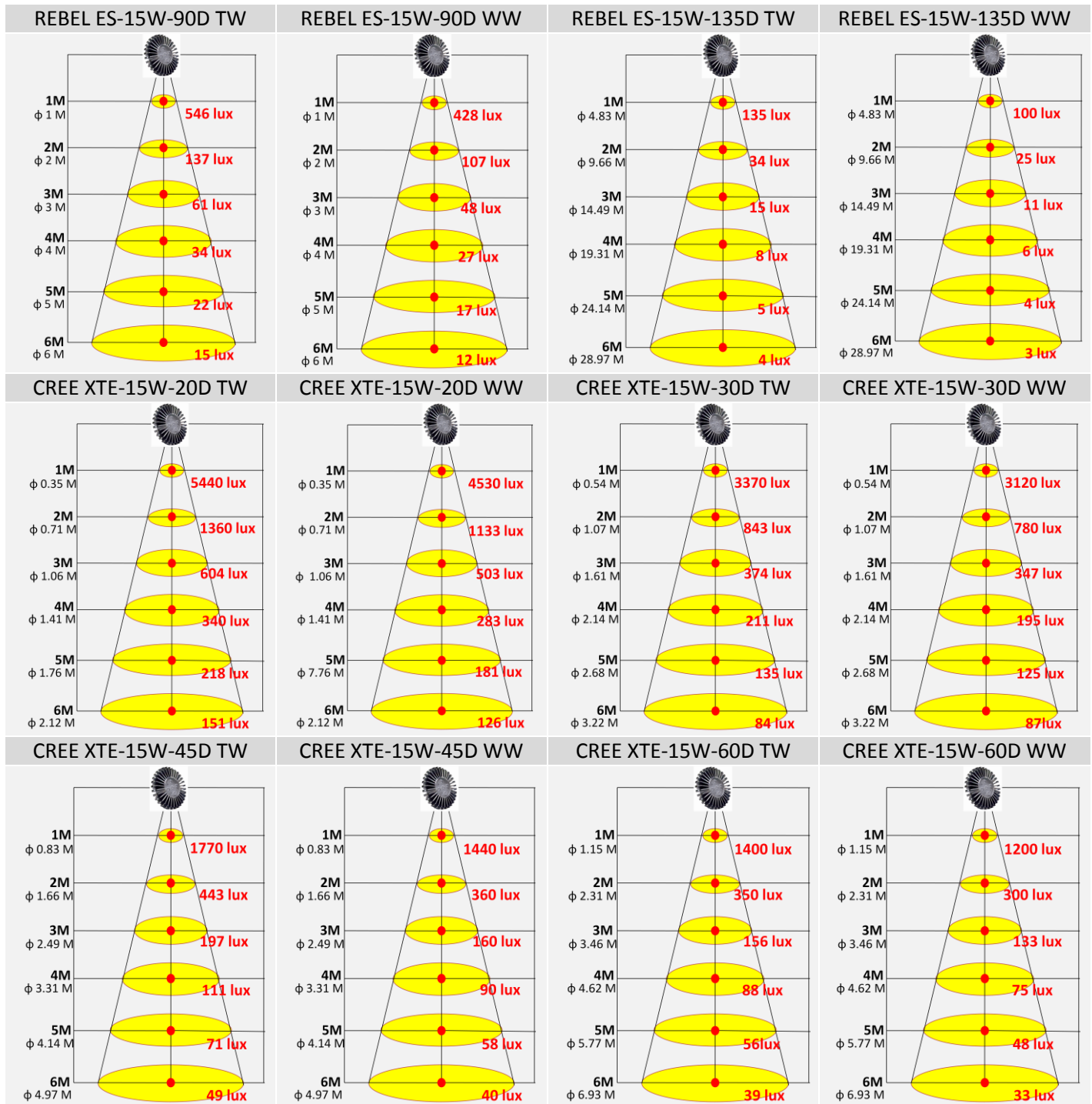
Illuminance at Distance



Illuminance at Distance



Illuminance at Distance



Mechanical Dimensions

