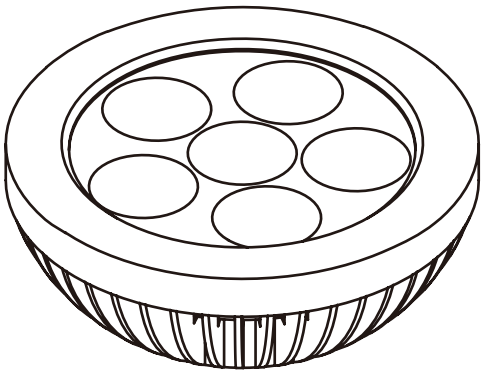
A Solid-State Lighting Premium Expert

www.edison-opto.com.tw

Solid-State Lighting Series

10W PAR30 Module Datasheet

Edison Opto 10W PAR30 Module utilizes 6 Edixeon® LEDs, capable of producing an illumination of 3,700lux at one meter. This module integrates advanced LED technology with proprietary optics and high-tech heatsink into an effective design.



The condensed light emitting area through the advanced optics design allows a cleaner and better defined light output. In addition to all the benefits you could expect from LEDs, you will get an attractive and easy-to-use solution with the 10W PAR30 Module.

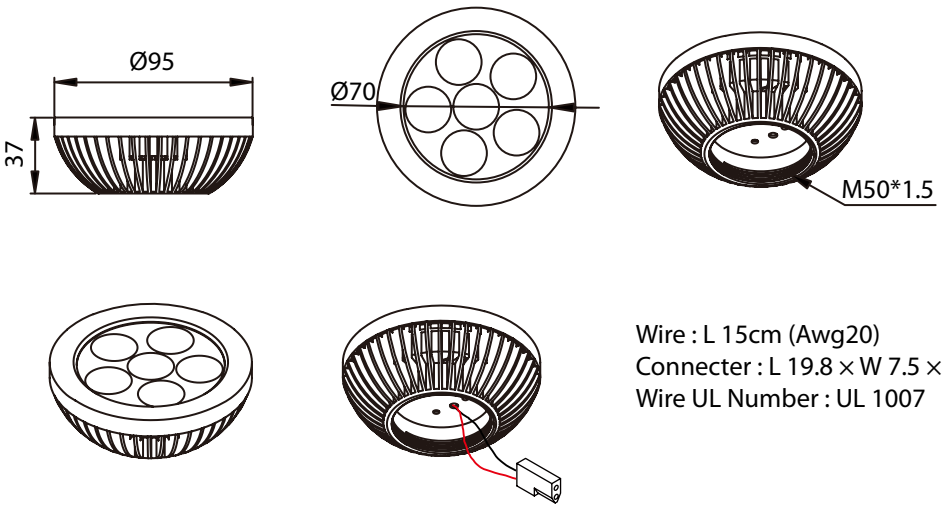
Features :

- Fully Integral Design
- Low Power Consumption
- Long Life (50,000hrs)
- Various Color (W/H/X/R/A/T/B)
- Field Angles Available in 25°/40°/140°

A Solid-State Lighting Premium Expert

Table of Contents

Dimensions



Wire : L 15cm (Awg20)
Connecter : L 19.8 × W 7.5 × H 8.8mm
Wire UL Number : UL 1007

Unit: mm
Tolerance: ±2.5 mm

Figure 1: 10W PAR30 Module dimensions.

Absolute Maximum Ratings

Parameter	Rating	Units
LED Junction Temperature	125	°C
Operating Temperature	-20 ~ 40	°C
Storage Temperature	-40 ~ 60	°C
DC Input Voltage	24	V
Constant Current	500	mA
Equilibrium	60	°C

Table 1: 10W PAR30 Module absolute maximum ratings.

Specifications

Parameter	
Power Consumption	10 Watt
Field Angle	25°/40°/140°
Color	W/H/X/R/A/T/B
CRI	70/75/80
Weight	150g

Table 2: 10W PAR30 Module specifications.

Illuminance and Beam Angles

The tables present the illuminance level with respect to different color temperature and field angle.

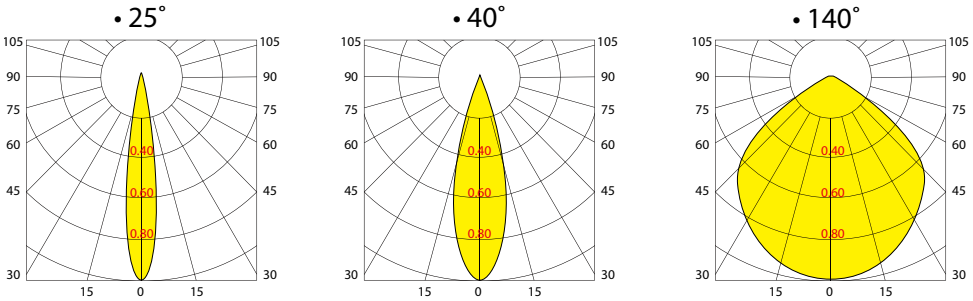
Power Consumption(W)	Field Angle	CCT(K)(Typ.)/ λd(nm)	Part Number	Lux @ 1m (Typ.)	Flux(lm)(Typ.)
10W	25°	6000K	EDIS-P30M10-WSx	3700	--
		4000K	EDIS-P30M10-HSx	2700	--
		3000K	EDIS-P30M10-XSx	2400	--
	40°	6000K	EDIS-P30M10-WFx	1900	--
		4000K	EDIS-P30M10-HFx	1650	--
		3000K	EDIS-P30M10-XFx	1400	--
	25° RAGB	620~630nm	EDIS-P30M10-RSx	--	240
		585~5950nm	EDIS-P30M10-ASx	--	290
		515~535nm	EDIS-P30M10-TSx	--	440
		460~475nm	EDIS-P30M10-BSx	--	100
	40° RAGB	620~630nm	EDIS-P30M10-RFx	--	235
		585~5950nm	EDIS-P30M10-AFx	--	280
		515~535nm	EDIS-P30M10-TFx	--	430
		460~475nm	EDIS-P30M10-BFx	--	95
	140°	6000K	EDIS-P30M10-WAx	--	400
		4000K	EDIS-P30M10-HAx	--	350
		3000K	EDIS-P30M10-XAx	--	300

Table 3: 10W PAR30 Module illuminance and field angles.

Notes:
1. Lux value is measured under thermal balance condition. (i.e. after 1 hour operation)
2. LED is a dynamic and constantly evolving technology. The final lux output of your 10W PAR30 Module may vary.
3. Input voltage = DC 24V

A Solid-State Lighting Premium Expert

Light Patterns



EDIS-P30M10-xSx EDIS-P30M10-xFx EDIS-P30M10-xAx

Figure 2: 10W PAR30 Module light patterns of different angles.

Assembly Instructions and Recommended Driver Specification

Input Voltage	Output Voltage	Operating Current (Constant)	Rated Power
AC 100~240V	DC18~24V	500mA	> 12W

Table 4: Specification of recommended driver.

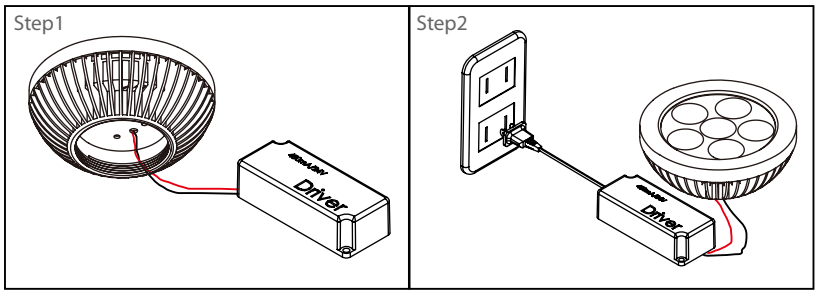


Figure 3: Assembly Instructions.

• Assembly Instructions :

1. Connect the 10W PAR30 Module to the DC driver shown as step 1.

2. Plug the driver to AC outlet shown as step 2.

Caution: Never plug the driver to AC outlet before the 10W PAR30 is properly connected as this may damage the LEDs permanently.

Application Notes

The compact and integral design of the 10W PAR30 Module make it ideal for a wide variety of lighting applications, including retail store spot light, ceiling downlight, and many other accent lightings.

Various colors and beam pattern options are suitable for an array of scenarios.