



LED Studio 3200T  
LED Studio 3200D

This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

PR LIGHTING LTD.  
<http://www.pr-lighting.com>

## INDEX

SAFE USAGE OF THE PROJECTOR	3
INSTALLING THE PROJECTOR	4
CONTROL CONNECTION	4
DMX TERMINATOR	5
SETUP OPTIONS-PROJECTOR CONFIGURATION	6
TO SET THE DMX START ADDRESS	6
TIMING SETUP FOR THE PROJECTOR	7
OPERATION MENU	7
DMX PROTOCOL	8
INDICATION OF LED DIGITAL TUBE	9
MAINTENANCE	9
TROUBLESHOOTING	9
TECHNICAL DATA	10
ELECTRICAL DIAGRAM	12
COMPONENT ORDER CODES	13

Please note that as part of our ongoing commitment to continuous product development, specifications are subject to change without notice. Whilst every care is taken in the preparation of this manual we reserve the right to change specifications in the course of product improvement. The publishers cannot be held responsible for the accuracy of the information herein, or any consequence arising from them.

Every unit is tested completely and packed properly by the manufacturer. Please make sure the packing and / or the unit are in good condition before installation and use. Should there be any damage caused by transportation, consult your dealer and do not use the unit. Any damage caused by improper use will not be assumed by the manufacturer and / or dealer.

## ACCESSORIES

These items are packed together with the projector:

Name	Quantity	Unit	Remark
Bam door	1	Set	
Clamp	1	Pc	
Safety cord	1	Pc	
XLR cable	1	Pc	With 5-pin plug
Power cord	1	Pc	
This manual	1	Pc	

## SAFE USAGE OF THE PROJECTOR



When unpacking and before disposing of the carton, check there is no transportation damage before using the projector. Should there be any damage caused by transportation, consult your dealer and do not use the apparatus.

The projector can be used indoors and outdoors, IP20.

The projector is not designed or intended to be mounted directly on to inflammable surfaces.



The projector is only intended for installation, operation and maintenance by qualified personnel.

Do not project the beam onto inflammable surfaces, minimum distance is 2m.  2m 

Avoid direct exposure to the light from the lamp. The light is harmful to eyes.

Do not attempt to dismantle and/or modify the projector in any way.

Electrical connection must only be carried out by qualified personnel.

Before installation, ensure that the voltage and frequency of power supply match the power requirements of the projector.

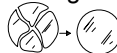
It is essential that each projector is correctly earthed and that electrical installation conforms to all relevant standards.

Do not connect this device to any other types of dimmer apparatus.

Make sure that the power-cord is never crimped or damaged by sharp edges. Never let the power-cord come into contact with other cables. Only handle the power-cord by the plug. Never pull out the plug by tugging the power-cord.

When the projector is hanged to a high place, please use a safety cord provided to pass through the projector handles as a secondary safety fixing for safety seasons. For details, refer to "INSTALL THE PROJECTOR" section.

Fresnel lens shall be changed if it has become visibly damaged to such an extent than their effectiveness is impaired, for example by cracks or deep scratches.



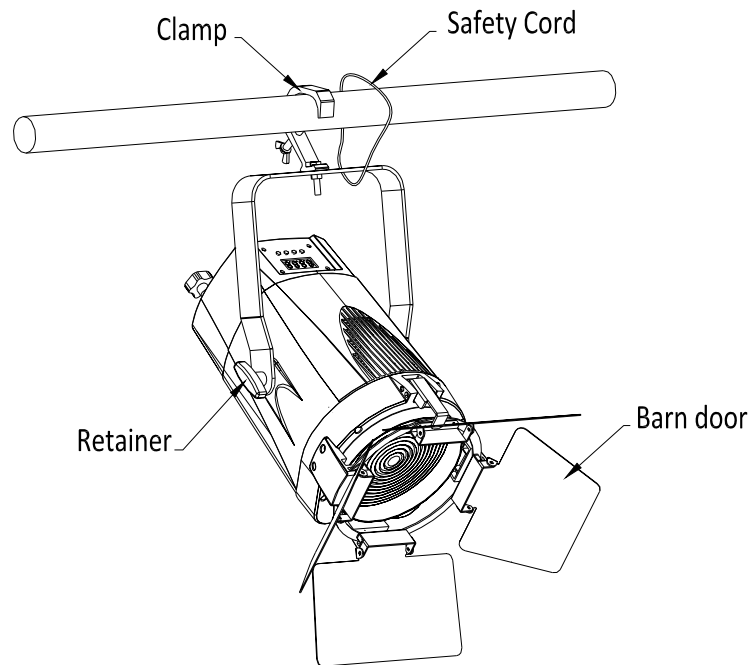
Exterior surface temperatures of the projector after 5 minutes' operation is 45°C, when achieving steady state it is 55°C.

There is no user serviceable parts inside the projector, do not open the housing and never operate the projector with the covers removed.

**Always disconnect from the mains, when the device is not in use or before cleaning it or before attempting any maintenance work !**

If you have any questions, don't hesitate to consult your dealer or manufacturer.

## INSTALL THE PROJECTOR



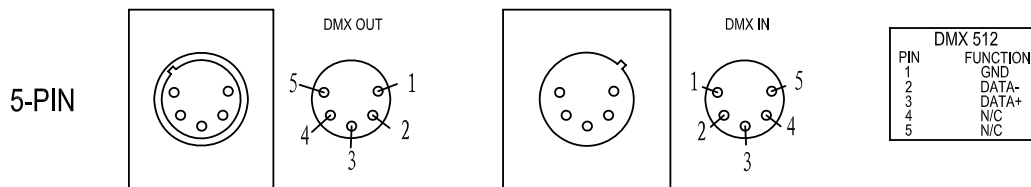
The unit was designed to make installation easy: The fixture's head can be rotated within 240° manually, before it rotates, two side retainers are loosened with care; after the head at a desired angle, tighten two side retainers..

Take 1 clamps and 1 safety cord out from the package and mount 1 clamps on the handle of fixture with 1 retainer attached to the clamp. Hang the fixture on the structure and fasten the screw attached to the clamp. Always ensure that the projector is firmly anchored to avoid vibration and slipping whilst functioning. Always ensure that the structure to which you are attaching the projector is secure and strong enough to support the weight of the fixture. For safety the projector should have a secondary fixing with a safety cord through the handle of the unit to ensure safe mounting.

### Warning:

1. The projector **MUST** be lifted or carried by the **HANDLES** instead of clamps.
2. For safety the safety cord should afford 10 times of the unit's weight.

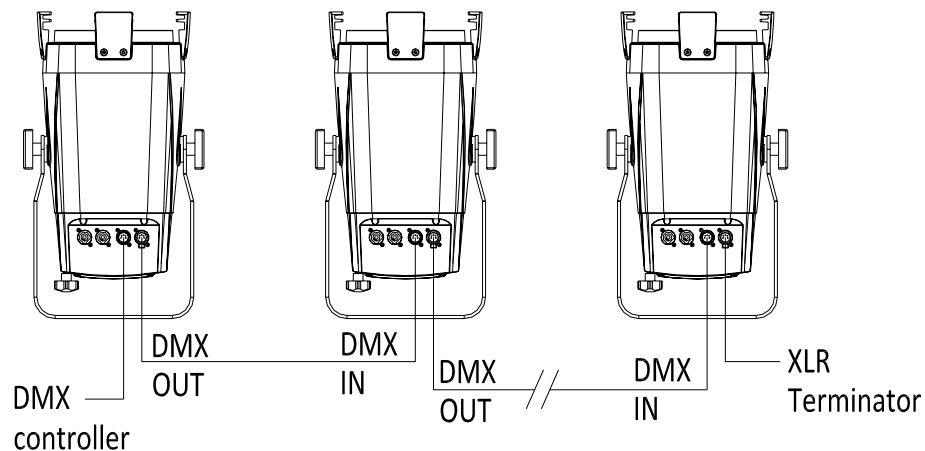
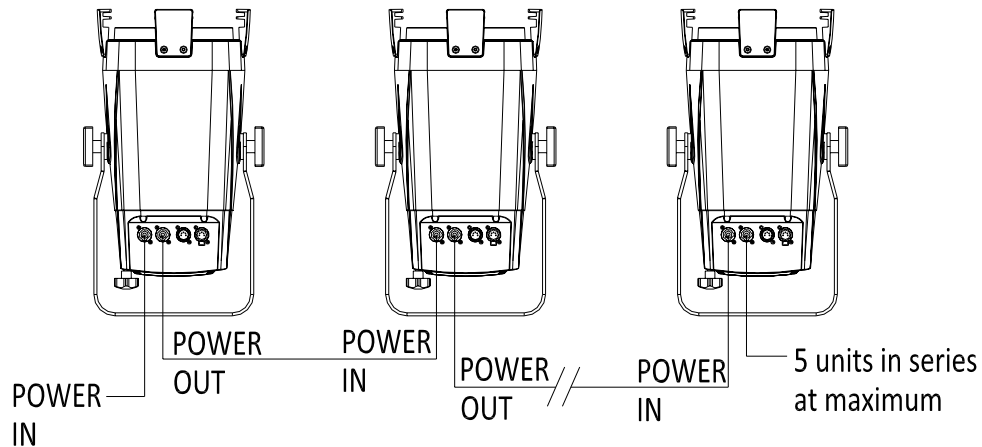
## CONTROL CONNECTION



Connection between the controller and a projector and between one projector and another must be made with a 2 core-screened cable, with each core having at least a 0.5mm diameter. Please use the projector's cannon 5-pin signal input and output cables as connection. The 5-pin signal connections are connected as shown in the figure above.

Note: Care should be taken to ensure that none of the pins touch the metallic body of the plug or each other. The body of the plug is not connected in any way. The projector accepts digital control signals in protocol DMX512 (1990). Connect the controller's output to the first fixture's input, and connect the first fixture's output to the second fixture's input and connect the rest fixtures in the same way. Eventually connect the last fixture's output to a DMX terminator as shown in the figure below.

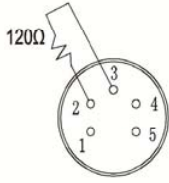
Not more than five units can be connected to power supply in series. The units can be connected to power supply in parallel. The voltage and frequency of the power supply should match those indicated on its nameplate.



## DMX TERMINATOR

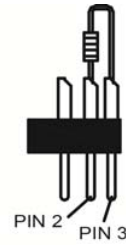
In the Controller mode, at the last fixture in the chain, the DMX output has to be connected with a DMX terminator. This prevents electrical noise from disturbing and corrupting the DMX control signals.

The DMX terminator is simply an XLR connector with a 120Ω (ohm) resistor connected across pins 2 and 3, which is then plugged into the output socket on the last projector in the chain. The connections are illustrated below.

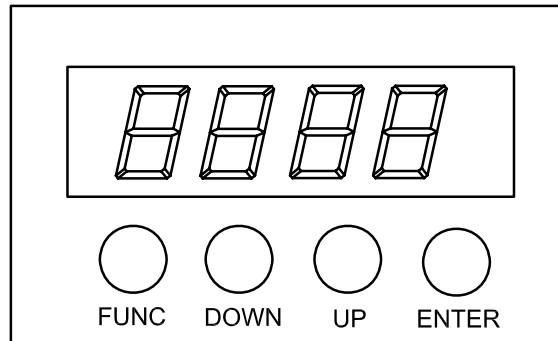


### DMX TERMINATOR CONNECTION

Connect a 120Ω(OHM) resistor across pins 2 and 3 in an DMX plug and insert into the DMX OUT socket on the last unit in the chain.



## SETUP OPTIONS-PROJECTOR CONFIGURATION



Projector configuration can be set conveniently via push-button switch and LED display.

Launch the projector and press button **ENTER** for more than 3 seconds to unlock the panel, the LED will show the function menu of the projector, each main menu has its submenus and each submenu has a specific function. For details, please see the "OPERATION MENU" section.

Press button **FUNC** if you want to browse through the various Setup Options.

Press button **ENTER** to save your settings or enter the next menu. Press button **UP** or **DOWN** to shift.

Press button **FUNC**, it will return to the main menu or browse through the main menu.

## TO SET THE DMX START ADDRESS

Each projector must be given a DMX start address so that the correct projector responds to the correct control signals.

This DMX start address is the channel number from which the projector starts to "listen" to the digital control information being sent out from the controller. The projector has 1 DMX channel, so set the No. 1 projector's address 001, No. 2 projector's address 002, No. 3 projector's address 003, and so on.

Launch the projector. Press button **ENTER** for more than 3 seconds to unlock the panel.

Press button **FUNC** to find "AddR" menu.

Then press **ENTER** to show DMX address and press **UP** or **DOWN** to set DMX address.

At this time, DMX address will flash continuously. Press button **ENTER** to confirm and it means the setting has been enabled.

Press button **FUNC**, it will return to the main menu.

## TIMING SETUP FOR THE PROJECTOR

After the fixture is powered on after FUNC , DOWN, ENTER buttons pressed together, the first digit of the digital display is flashing "0", which means hour counting is cleared and becomes zero and hour counting is ready. After a fixture is re-powered on , hour counting starts to work.

### OPERATION MENU

1st LEVEL	2nd LEVEL	3rd LEVEL	4th LEVEL
Addr (DMX address)	XXX (XXX:001~512)		
CNFG (Config settings)	Disp (Display settings, default ON)	ON (Always ON) OFF (Shut off digital CRT without pressing buttons in 3 minutes)	
	FACT (Reset factory setup)	NO  YES	
INFO (Information)	VER (Software version)	X.X.X (Display software version)	
	TEMP	XXX (Display Temperature)	
	TIME (Power on hours)	XXXX (Display power on hours)	
MENU (Operation mode)	TEST (Test mode)	BRVL (Brightness)	V000-255
	DMX (DMX mode)		
	PRG1 (Preset memory 1)		
	PRG2 (Preset memory 2)		
	PRG3 (Preset memory 3)		

## DMX PROTOCOL

CHANNEL	FUNCTION	DMX	DESCRIPTION
1	Dimmer	000-255	Dimming from dark to light



## INDICATION OF LED DIGITAL TUBE

Decimal point of the first digital tube	On	DMX signal OK
	Off	No DMX signal
The first digital	"0" chase mode	DMX signal OK
	"0" flash mode	No DMX signal
Parameters that LED digital tubes display	Flash	Parameters not saved, press "ENTER" to save them

## MAINTENANCE

To prolong the life of the projector, it is very important to do the maintenance work. If the projector is idle for a long time, damp, smoke or particularly dirty surroundings can cause greater accumulation of dirt on its cover and housing. So it should be cleaned to maintain an optimum light output and at the same time to prevent it from corrupted by acid gas.

Cleaning frequency depends on the environment in which the fixture operates. Soft cloth and typical glass cleaning products should be used for cleaning. It is recommended to clean projector at least once every 20 days.

**Do not use any organic solvent, e.g. alcohol, to clean housing of the apparatus.**

## TROUBLESHOOTING

PROBLEM	ACTION
The projector doesn't switch on	<ul style="list-style-type: none"> <li>➤ Power connection is not correct.</li> <li>➤ Power supply is damaged or abnormal. Call a qualified personnel to fix it.</li> <li>➤ Connection of control board is not correct. Call a qualified personnel to fix it.</li> </ul>
The projector can be turned on, but LEDs do not emit light and are out of control.	<ul style="list-style-type: none"> <li>➤ Connection of LED board is not correct. Call a qualified personnel to fix it.</li> </ul>
The lamp comes on but the projector doesn't respond to the controller	<ul style="list-style-type: none"> <li>➤ Make sure that the projector is correctly configured.</li> <li>➤ Replace or repair the DMX cable.</li> </ul>
The beam appears dim	<ul style="list-style-type: none"> <li>➤ The projector is too hot. Take ventilation measures to make it cool.</li> </ul>

## TECHNICAL DATA

### VOLTAGES:

100~240V AC, 50/60Hz

### POWER CONSUMPTION:

120W@220V

### LED:

Power consumption	200W
Quantity	1pc
Manufacturers Rated LED Life	More than 30000 Hours

### COLOUR TEMPERATURE:

PR-3200T 3000K  
PR-3200D 5000K

### DIMMER:

0-100% linearly adjustable

### BEAM ANGLE:

Spot Light	
Field angle(one-tenth-peak) $\theta$	29°
Soft light	
Field angle(one-tenth-peak) $\theta$	97°

### CONTROL:

DMX512, 5 pin interfaces  
3 preset memories

### OTHER FUNCTIONS:

Software version display  
fixture usage time display  
Disconnect the signal cable, the projector automatically switch off .

### HOUSING:

High-intensity die-casting aluminum, IP20

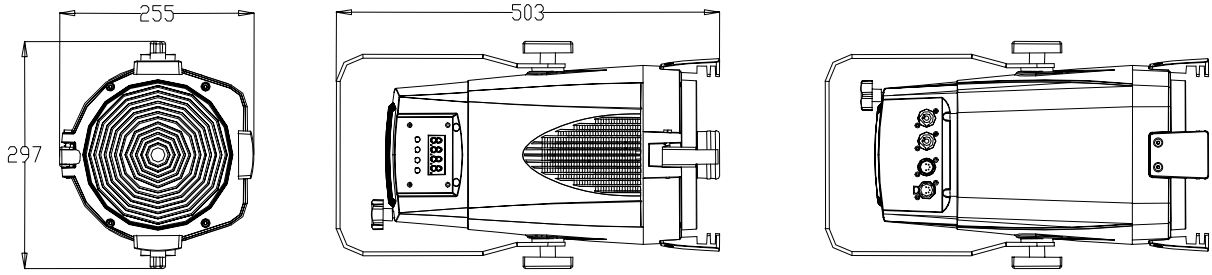
### WORK ENVIRONMENT TEMPERATURE:

-20°C~40°C

### WEIGHT:

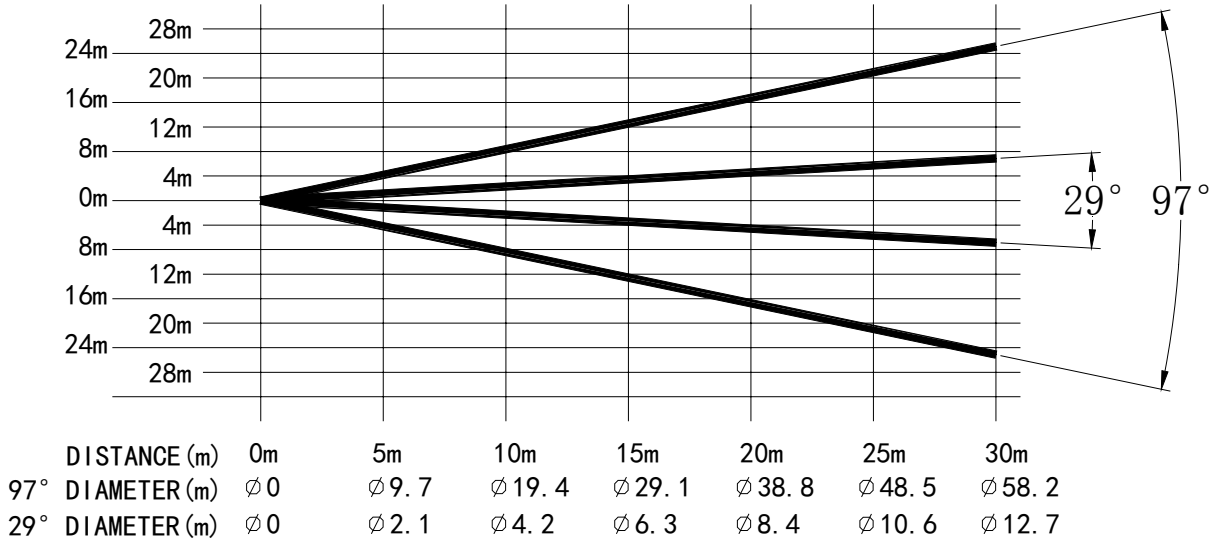
6kg

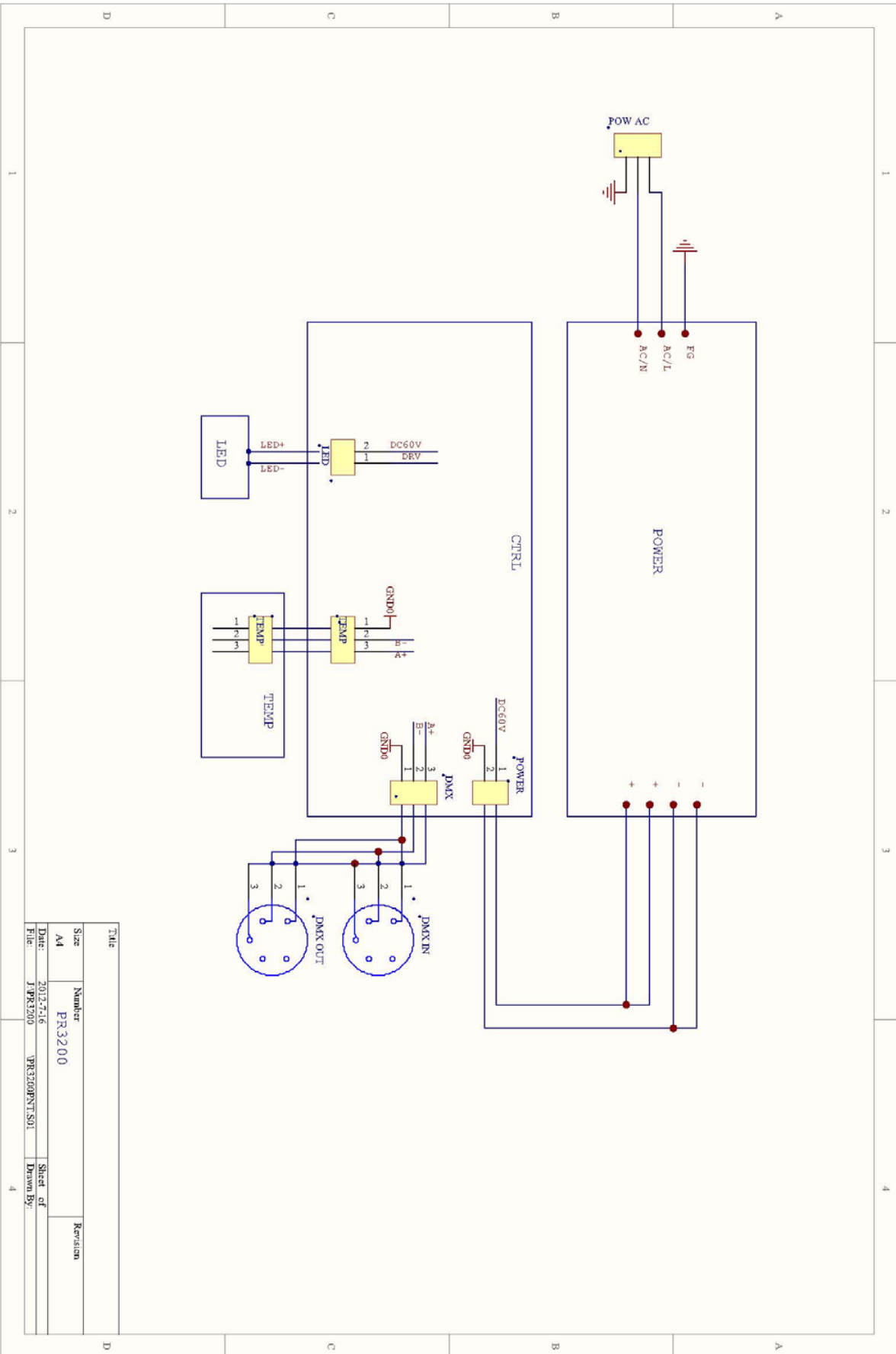
**SIZES:**



**LIGHT OUTPUT:**

29°	LUX	1716	429	191	107	69	48
97°	LUX	291	73	32	18	12	8





## COMPONENT ORDER CODES

NAME	PART NO.	QUANTITY	REMARK
SIGNAL CABLE	230090003	1	5m
POWER CORD	120080070	1	1.5m
POWER SUPPLY	192010150	1	
LED CONTROL BOARD	230020459	1	
LED LAMP	150020229	1	PR-3200T
LED LAMP	150020236	1	PR-3200D
FRESNEL LENS	070050080	1	DIN15560
FAN	030060085	1	∅ 135X25

## PR LIGHTING LTD.

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PR New Hi-tech Science Park, 1582 Xingye Avenue  
Nancun Panyu, Guangzhou, 511442 China  
TEL: +86-20-3995 2888  
FAX: +86-20-3995 2330

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P/N: 320020066A  
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