



DREAM LIGHT Workshop

User Manual

DLW L4019C4 BEE

Guangzhou Dream Lighting Equipment Co., LTD

Contents

Safety Information	3/4
Package & Transportation	5
Fixture Package	5
Transport protection lock	5
Unpacking	5
Packing Accessories	5
Specification	6
Power Supply & Power	6
Light Source	6
Effect Configuration	6
Fixture Movement	6
Electronic Technique	6
Fixture size & Weight	7
Operation Panel	7
Operation Panel Instructions	7
LCD Display Function Sheet	8/9
Signal Connection	10
Power Connection	11
Connection type	11
Installation instruction & requirement	12
Fixture Installation	12
Fixture Placing	13

DMX Channel Sheet 14

DMX Channel Control Details 15/16

Fixture maintenance& cleaning 17

Fault handling 17/18

Attached 1: Angle Range Application &Fixture Dimension Drawing 19/20

Attached 2: DLW L4019C4 BEE Electrical Diagram 21

Attached 3: DLW L4019C4 BEE Illumination Diagram 22

Safety Information







Note: Please check the complete packing after received the fixture, and please check the fixture damaged or not during shipping after opened the packing. If the fixture is damaged during shipping, please don't use it first, and contact the manufacture/local technical staffs as soon as possible.

The following identifications are used to identify the product and identify the important safety information in the user manual.

Caution	Used indoor only!	Refer to the manual before installation/ power on/ maintenance	Caution Eelectric shock hazard!	Properly grounded	Caution wear goggles!	Caution Don't touch!	Caution Must wear gloves!
				$t_a \dots ^\circ\text{C}$			
Caution Prevent fire!	Don't watch the bright lamp!	Forbidden to touch fixture during movement!	Shortest distance from the object (m)	Rated maximum ambient temperature!	Don't install the fixture on the surfact of combustibile materials!	Replace any cracked protective shields	

Notes:

- The fixture is used professionally only, please don't used it for any other purposes.
- Please refer to the latest user manual before using the fixture. It is out of warranty items if any problems caused by any incorrect use or neglecting the user manual.
- The fixture is used indoor; IP rate is IP20. Keep the fixture dry and avoid to use the fixture under the environment of damp, overheating or dustiness. Keep away from the water or any liquid.
- Don't move the fixture alone in order to avoid damaging it, must test hanging devices should bear more than 10 times weight of the fixture when hanging it. Please check the fixture shell and fixed G-clamp after installed. At the same time, please use the safety chain to keep the fixture fixed on the truss safely.
- The fixture should be installed in a well-ventilated place. Keep the distance from obstacles above 0.9m, and check the fans and ventilation holes are blocked or not.

- Please don't install the fixture on the surfaces of the combustibles directly. ()
- Please confirm the voltage must be conformed to the voltage on the fixture identifications before the professional person installs it, and have overload or leakage protection.
- Please check whether the fuse meets the technical requirements. Please don't replace it arbitrarily and short circuit when the fixture power on. And then confirm whether the input voltage meets the technical requirements and properly grounded, then power on the fixture.
- Please cut off the power supply when replacing the fuse. ()
- Rated highest ambient temperature: $t_a = 40^{\circ}\text{C}$.
- The safety and shortest distance to illuminated object: 5m.
- Surface highest temperature $t_c = 75^{\circ}\text{C}$, when the fixture working.
- The shortest safety distance to flammable material: 0.5m.
- Please don't touch the fixture when its highest surface temperature reaches to 75°C in process of working stably.
- When the distance $< 3.5\text{m}$, please don't stared at the fixture for a long time which should be positioned.
- Please attation to fire high temperature and electricity impacting when the fixture working.
- Please don't look at the lighting fixture without any eye protection.
- Please don't power off the lamp or cut off the power supply when it is working in 5mins, because of the special necessary of Metal halide discharge bubbles.
- Please reset it or move it or open it after power off for 15mins or cooling completely. Must cut off the power supply when open the shell or install/remove the lamp, change the fuse. Avoid to use the fixture in the in thunderstorm weather or in a humid environment.
- Please change the lamp when it is damaged or thermal deformation.
- Please change the protective cover, lens if any damaged it or cracked. ( )
- The fixture must be installed, operated, and maintained by professional person strictly according to standard operation of the user manual.
- All the relative information of the user manual is for reference only. All fixtures should be subject to the actual product, which is subject to change without prior notice.

Package & Transportation

Fixture package

- Please cut off the power supply and cooling it for over 15mins before package the fixture.
- Lock the protection lock well with Pan=0°, Tilt=90°.
- Put the fixture into plastic bag, then grasp the handles and arms to keep it handstand, and then put it into the flight case vertically and carefully, the parts are place at special area in flight case, then close the flight case and lock it. don't put it upside down.

Transport protection lock

- There is protective lock at Pan/Tilt movement for safety transportation.

Unpacking

- Open the packing box, and then open the inner packing bag.
- Grasp the handle of the fixture, take it out of the case carefully.
- Unlock the protective lock before power on the fixture.

Notice: Please check the complete packing after received the fixture, and please check the fixture damaged or not during shipping after opened the packing. If the fixture is damaged during shipping, please don't use it first, and contact the manufacture/local technical staffs as soon as possible.

Accessories with fixture

Accessories	Qty
User Manual	1
Warranty Card	1
Signal Cable	1

Specification

Power Supply& Power

AC 100 - 240 V50 / 60 Hz

Rated current: 8.6A, Rated power input:860W, PF≥0.98.

Light Source

- OSRAM LED40W*19PCS RGBW 4 in 1.
- Linear Zoom: 4°~ 60°.

Effect Configuration

- Individual control.
- Color temperature 2500K-8000K linear change.
- Front lens infinite rotation to make kaleidoscope effect, beautiful and colorful beam.

Fixture Movement

- PAN=540°, precision: 8bit, 2.11°/step, 16bit, 0.008°.
- TILT=270°, precision: 8bit, 1.06°/step, 16bit, 0.004°.

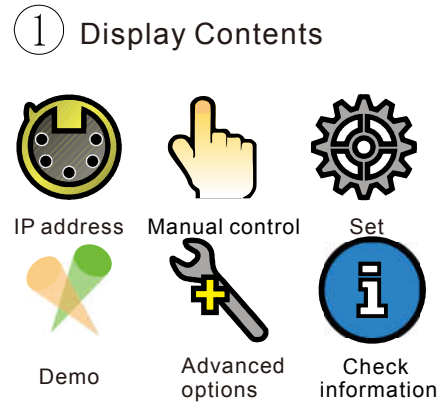
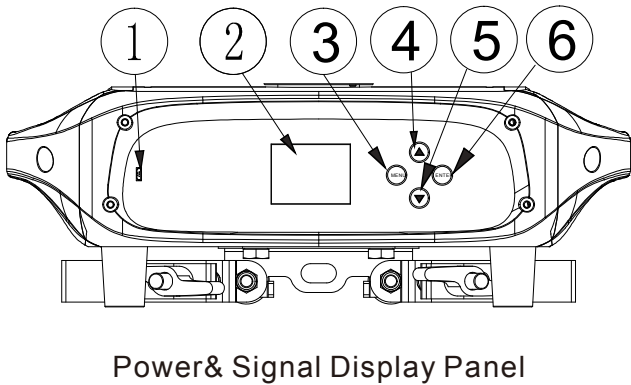
Electronic Technique

- Channel mode: 21CH/35CH/97CH.
- ControlProtocol:Standard DMX512 protocol, Art-net,Ethernet light control protocol, wirelessDMX512,RDM, Menu edit withmobile power supplywithout power.(optional)
- Menu display: 2.4 inches LCD color touch screen; Random switch of Chinese and English language, menu available to display 180°reversely; Non-contacting wheel key mode.
- ECO mode,when lamp closed,power will be auto-reduction.
- Intelligent controlling fan
- Electromic sensors detecting
- DMX channel level monitoring
- Check fixture information by LCD screen,such as lamp usage time,fixture usage time, software version,etc.

Fixture Size& Weight:

- Fixture size:478*369*538mm
- Net weight:23Kg
- IP Grade:IP20

Operation Panel



Pic 1



As shown in Pic 1

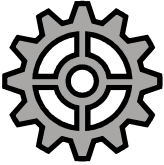



- 1.USB
- 2.LCD display
- 3.Menu(Return)
- 4.Up
- 5.Down
- 6.Enter

Operation Panel Introduction

- Up: Choose submenu on a loop, Up-regulation data value on a loop.
- Down: Choose submenu on a loop, Down-regulation data value on a loop.
- Menu (return): Back to menu.
- Enter :Confirm the data value or choose cycled data window.
- LCD reversedly operation: press "Enter" 3s to auto-reverse.
- Unlock code for black screen:up down up down,press "Enter".

Display panel function detail illustration

<p>IP address</p> 	1.Ip address set	
	2.Channel mode	
	3.Dimmer mode	Standard/ Halogen
	4.Signal mode	DMX/Wireless
	5.Exit	
<p>Manual control</p> 	1.Red	
	2.Red fine	
	3. Green	
	4. Green fine	
	5. Blue	
	6. Blue fine	
	7. White	
	8. White fine	
	9. Color temperature	
	10. Color macro	
	11. Strobe	
	12. Dimmer	
	13. Dimmer fine	
	14.Pan	
	15. Pan fine	
	16. Tilt	
	17. Tilt fine	
	18.Function control	
	19. Reset	
	20. Zoom	
	21.Zoom rotation	
	22. Shape rotation	
	23. Shape speed	
	24. Shape gradient	
	25. Shape chosen	
	26. Shape speed	
	26. Shape gradient	
	27. Shape red	
	28. Shape green	
	29. Shape blue	
	30.Shape white	
	31. Shape dimming	
	32.Background dimming	
	33. Shape changing	
	34. Shape moving	
	35. Foreground strobe	
	36.Background strobe	
	37. Background strobe	
38. Return		

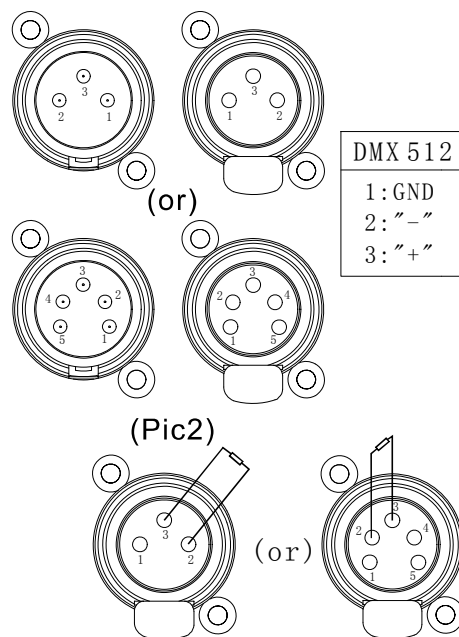
<p>Set</p> 	1. Pan reverse	
	2. Tilt reverse	
	3. Language setting	
	4. Display reverse	
	5. Display mode	
	6. Remove link	
	7. Exit	
<p>Demo</p> 	1. Motor reset	
	2. Factory setting	
	3. Factory setting	
	4. Exit	
<p>Advanced options</p> 	1. Advanced options	
	2. passwords enter	
	3. Pan correction	
	4. Tilt correction	
	5. Zoom 1 correction	
	6. Zoom 2 correction	
	7. Zoom 3 correction	
	8. Rotation correction	
	9. Red correction	
	10. Green correction	
	11. Blue correction	
	12. White correction	
	13. Exit	
<p>Check information</p> 	1. Time information	
	2. sensor detection	
	3. Temperature control information	
	4. Soft version	
	5. Exit	

Signal connection

The fixture adopts 3pin/5pin socket to control DMX input and output, Pin1 is connected to grounded, Pin2 is connected to"-", Pin3 is connected to"+"(Pic2).

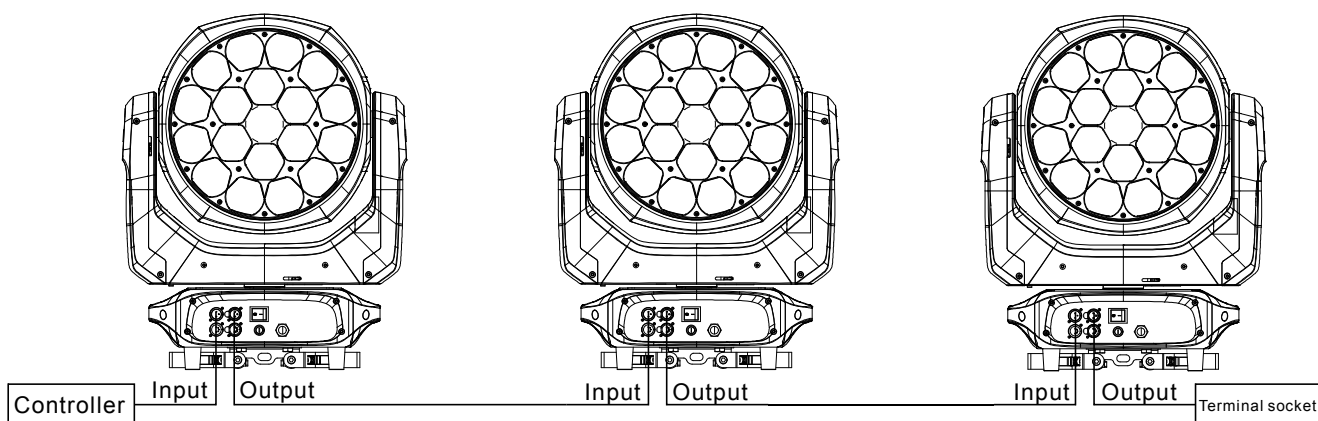
Please adopt professional DMX512 STP signal cable, which is usually connected in 150m, when need signal as long distance transmission, please add DMX 512 signal amplifier.

To avoid the signal reflection in transmission, please add a terminal which is 120Ω 1/4W resistance between DMX output pin2 and pin 3 of the last fixture. Plug the pin to the DMX output connector of the last fixture. (Pic3)



Terminal socket (Pic3)

Connect the fixture from the DMX output of controller to DMX input of the first fixture, and then output to the second... until to connect the last fixture. Then please install a terminal plug in DMX output of the last fixture. (Pic 3) Connection as bellow. (Pic4)



(Pic4)

Notice:

- Don't use multi- output connector for connecting separately, if needing, it must connect the branch with DMX512 signal amplifier to separate them.
- Standard amplifier cable is not reliable for long-distance data transmission; it must adopt professional DMX 512 STP signal cable.
- The signal of the fixture only has one input and one output. Two input/output for each fixture are not available.

Power connection

Input voltage and frequency must conform to what shown on the fixture, when many fixtures are working at the same time, please control the fixture on/off individually.

Connection type

L(Live line)Brown

N(Null line)Blue

E(Earth line)Yellow and green

Notice:

- When connect to the power, the E line (yellow & green) must be grounded completely and conform to the standard of electrical installation.
- Insulation class between LV power supply and controlling conductor: I
- If the external cable is damaged, don't change it by yourself, please contact the manufacture/local dealer to solve it.
- Please confirm the voltage must be conformed to the voltage on the fixture identifications before the professional person installs it, and have overload or leakage protection.

Installation instruction& requirement

The user need to make regularly inspect the safety fixtures and installing parts, if there is lack of operating conditions and professional standards, please operate it by professional person, to avoid to incorrect installation by non-professional person leading to property loss or life danger.

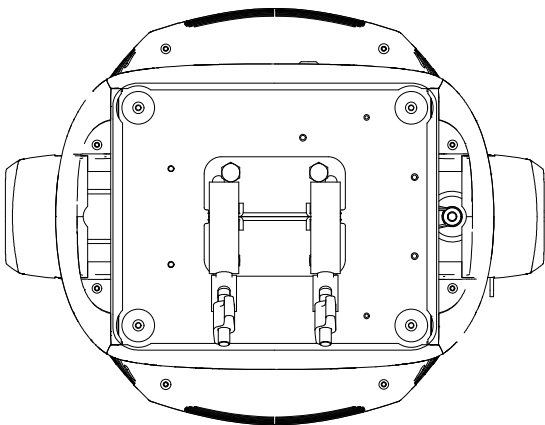
Make sure there is no damage to rigging and clamps and they can bear at least 10 times weight of the fixture. Check if the truss or pipe construction can bear at least 10 times total weight of all equipment, clamps, cables and accessories.

Fixture installation

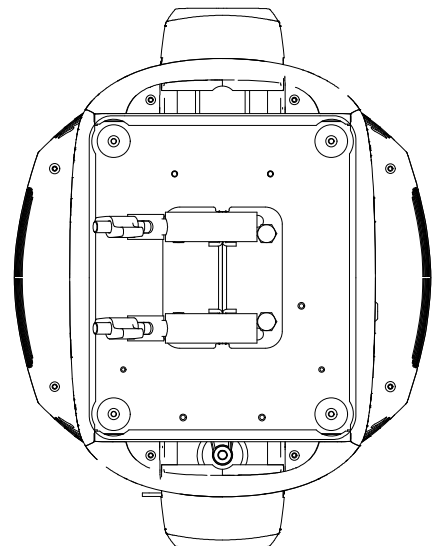
Fixture is installed on the stage or truss, and the G-clamp can be locked on the truss tightly. (Pic6)

Notice:

- User must check the G-clamp and safety chain are damaged or not.
- Please unlock the lock of pan/tilt before power on.
- Side hanging for long time is not recommended.

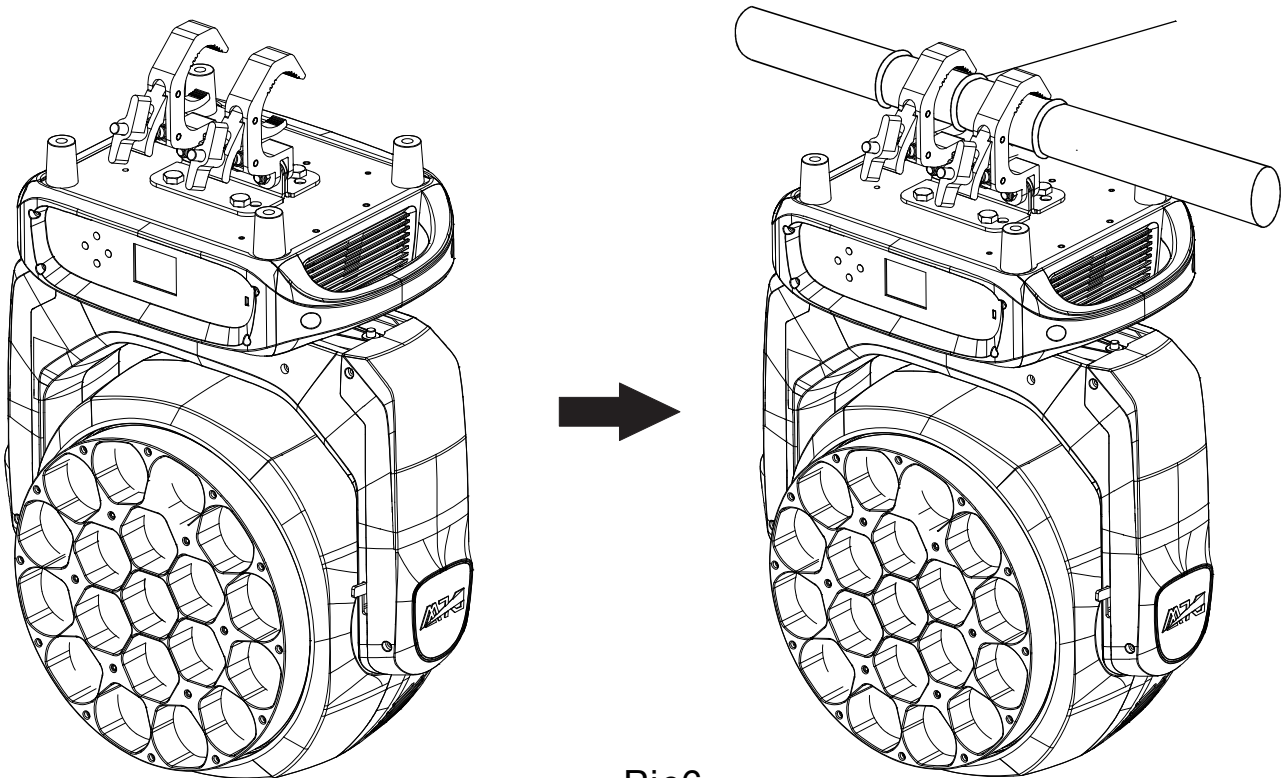


Horizontal direction



Vertical direction

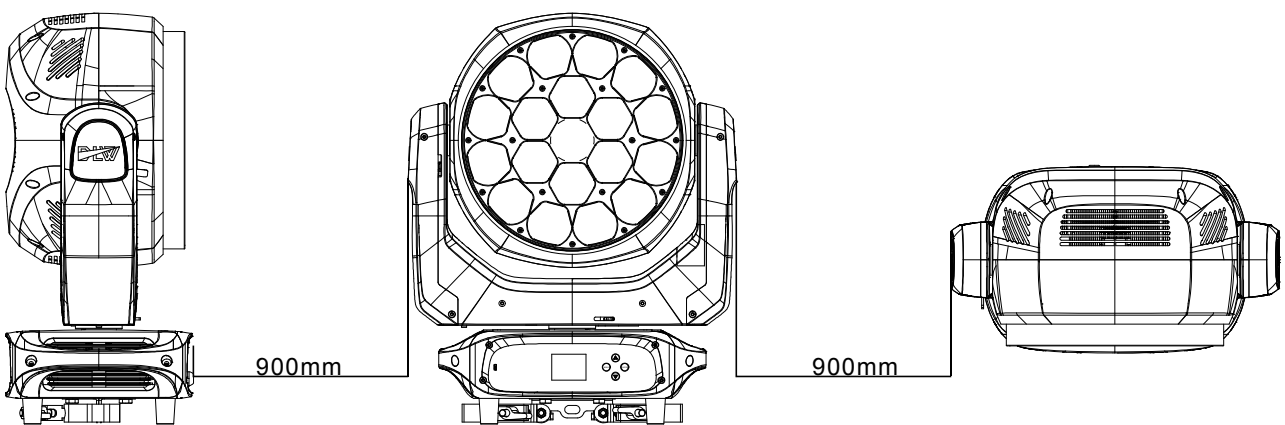
Pic5



Pic6

Fixture placing

Please check inflammables or others near the fixture when placing the fixture,
The shortest safety distance between the adjacent fixture $\geq 0.9m$. the layout is as bellow (Pic7)



Pic7

DMX Channel Sheet

DLW L4019C4 BEE CHANNEL							
CH	STANDARD	CH	SHAPE	CH	RGB	CH	RGBW
	(21CH)		(35CH)		78CH		97CH
1	Red	1	Red	1	Red	1	Red
2	Red fine	2	Red fine	2	Red fine	2	Red fine
3	Green	3	Green	3	Green	3	Green
4	Green fine	4	Green fine	4	Green fine	4	Green fine
5	Blue	5	Blue	5	Blue	5	Blue
6	Blue fine	6	Blue fine	6	Blue fine	6	Blue fine
7	White	7	White	7	White	7	White
8	White fine	8	White fine	8	White fine	8	White fine
9	Linear CTO	9	LinearCTO	9	Linear CTO	9	Linear CTO
10	Marco color	10	Marco color	10	Marco color	10	Marco color
11	Strobe	11	Strobe	11	Strobe	11	Strobe
12	Dimmer	12	Dimmer	12	Dimmer	12	Dimmer
13	Dimmer fine	13	Dimmer fine	13	Dimmer fine	13	Dimmer fine
14	Pan	14	Pan	14	Pan	14	Pan
15	Pan fine	15	Pan fine	15	Pan fine	15	Pan fine
16	Tilt	16	Tilt	16	Tilt	16	Tilt
17	Tilt fine	17	Tilt fine	17	Tilt fine	17	Tilt fine
18	Function	18	Function	18	Function	18	Function
19	Reset	19	Reset	19	Reset	19	Reset
20	Zoom	20	Zoom	20	Zoom	20	Zoom
21	Zoom rotation	21	Zoom rotation	21	Zoom rotation	21	Zoom rotation
		22	Shape selection	22	Red LED1	22	Red LED1
		23	Shape speed	23	Green LED1	23	Green LED1
		24	Shape fade	24	Blue LED1	24	Blue LED1
		25	Shape red	...	Red LED	25	White LED1
		26	Shape green	...	Green LED	26	Red LED2
		27	Shape blue	...	Blue LED	27	Green LED2
		28	Shape white	76	Red LED 19	28	Blue LED2
		29	Shape dimmer	77	Green LED 19	29	White LED2
		30	Background dimmer	78	Blue LED 19	...	Red LED
		31	Shapetransition			...	Green LED
		32	Shape offset			...	Blue LED
		33	Foreground strobe			...	White LED
		34	Background strobe			94	Red LED 19
		35	Background select			95	Green LED 19
						96	Blue LED 19
						97	White LED 19

DMX Channel Control Details

DLW L4019C4 BEE CHANNEL FUNCTION						
Standard	Shapes	RGB	RGBW	Character	DMX Value	Function
1	1	1	1	Red	0~255	Red
2	2	2	2	Red fine	0~65535	Red fine
3	3	3	3	Green	0~255	Green
4	4	4	4	Green fine	0~65535	Green fine
5	5	5	5	Blue	0~255	Blue
6	6	6	6	Blue fine	0~65535	Blue fine
7	7	7	7	White	0~255	White
8	8	8	8	White fine	0~65535	White fine
9	9	9	9	Linear CTO	0~9	Unused range
					10~255	Linear CTO from 8000K to 2500K
10	10	10	10	Macro color	0~9	Macro color OFF
					10~255	Macro color
11	11	11	11	Strobe	0~3	Closed
					4~103	Strobe from slow to fast 1Hz-25Hz
					104~107	Open
					108~207	Pulsation from strobe slow to fast 1Hz-25Hz
					208~212	Open
					213~251	Random Strobe from slow to fast
					252~255	Open
12	12	12	12	Dimmer	0~255	Dimmer
13	13	13	13	Dimmer fine	0~65535	Dimmer fine
14	14	14	14	Pan	0~255	Movement 0°→540°
15	15	15	15	Pan fine	0~65535	Movement fine 0°→540°
16	16	16	16	Tilt	0~255	Movement 0°→270°
17	17	17	17	Tilt fine	0~65535	Movement fine 0°→270°
18	18	18	18	Function	0~72	Function off
					73~77	Halogen Lamp Simulation OFF
					78~82	Halogen Lamp Simulation 3200K
					83~87	Halogen Lamp Simulation 4500K
					88~92	Halogen Lamp Simulation 5600K
					93~97	Halogen Lamp Simulation 6500K
					98~102	Halogen Lamp Simulation 8000K
					103~255	Strobe reserved
19	19	19	19	Reset	0~25	Unused range
					26~76	Zoom reset
					77~127	Pan/tilt reset
					128~255	Complete reset
20	20	20	20	Zoom	0~255	Zoom from small to large
21	21	21	21	Zoom rotation	0~127	Linear Rotation 0°-360°
					128~190	Rotation from fast to slow
					191~192	Stop
					193~255	Rotation from slow to fast
	22			Shape selection	0~7	Function OFF
					8~70	Shape selection
					71~255	Reserved

	23			Shape speed	0~63	Static shape	
					64~158	Max to min speed	
					159~160	Stop	
					161~255	Min to max speed	
	24			Shape fade	0~15	Snap effect	
					16~255	Fade effect and gamma selection	
	25			Shape red	0~255	Shape R	
	26			Shape green	0~255	Shape G	
	27			Shape blue	0~255	Shape B	
	28			Shape white	0~255	Shape W	
	29			Shape dimmer	0~255	Shape dimmer	
	30			Background dimmer	0~255	Background dimmer	
	31			Shape transition	0~4	Transition free	
						5~255	Transition delay from 100ms to 4s
	32			Shape offset	0~255	Shape angle and density adjustment	
	33			Foreground strobe	0~3	Closed	
						4~103	Strobe from slow to fast 1Hz-25Hz
						104~107	Open
						108~207	Pulsation from strobe slow to fast 1Hz-25Hz
						208~212	Open
						213~251	Random Strobe from slow to fast
						252~255	Open
	34			Background strobe	0~3	Closed	
						4~103	Strobe from slow to fast 1Hz-25Hz
						104~107	Open
						108~207	Pulsation from strobe slow to fast 1Hz-25Hz
						208~212	Open
						213~251	Random Strobe from slow to fast
						252~255	Open
	35			Background select	0~7	No Selection	
						8~23	Background shape rotation
						24~254	Wash mode
						255	Mirror effect with background color
	22	22		Red LED1	0~255	Red LED1	
	23	23		Green LED1	0~255	Green LED1	
	24	24		Blue LED1	0~255	Blue LED1	
	...	25		White LED1	0~255	White LED1	
	
	
	
	
	76	94		Red LED19	0~255	Red LED19	
	77	95		Green LED19	0~255	Green LED19	
	78	96		Blue LED19	0~255	Blue LED19	
		97		White LED19	0~255	White LED19	

Fixture maintenance& cleaning

The fixture needs to be daily cleaning and maintenance, because its lifespan depends on working environment and daily maintenance. Please contact company engineer for any questions and feedback any other maintenance problems out of the manual to our professional engineer.

Notes as bellow: 

- Must cut off the power supply before open the shell.
- Please open the shell after the fixture cooling completely
- Cleaning the optics components gently to avoid scratching the surface coating, Don't use any harmful liquid or hard objects to avoid damaging plastic and scratching the surface coating;
- Wiping the particulate Matter with tasteless tissue-paper or cotton cloth with clean, distilled water. Don't wipe the surface, but blow away floating things with pressure gas, any residues must be cleaned with distilled water from center to edge, and then dry it with soft cotton cloth
- Please change the lens in time when it cracks or has other damages
- It is out of warranty any damage caused by fan with overmuch dust, smoke fluidity and abnormal using fixture.
- There is temperature protection device of the fixture, when the temperature is so high that the lamp is off automatically, when this happens, please check the fan is working well or not, checking he fan filter is blocked by dust. Only reset the fixture after the qualified professional technicians troubleshoot well.
- Weekly cleaning and maintenance for the fan filters and lens. Do a complete maintenance in half a year.

Fault treatment

The following are some problems in process of operation, and there are some suggestions for troubleshooting:

Fixture doesn't response, when power on

- Check if power input is normal.
- Check if power switch is on.
- Check if fuse is burned.

Not controlled by the console:

- Check if the display is flicker, if yes, check if DMX signal connector and signal cable are connected well.
- If not flicker, but still no response to control channel, please check if IP address is correct set.
- If DMX signal is not stable, please check XLR socket and signal cable are connected well.

Change another console for testing.

Some channel failure:

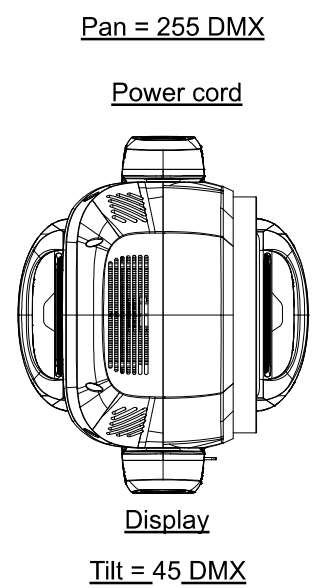
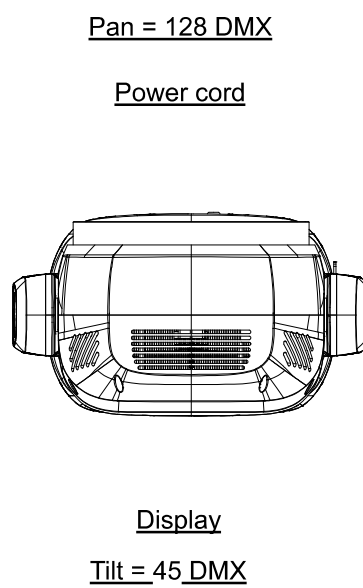
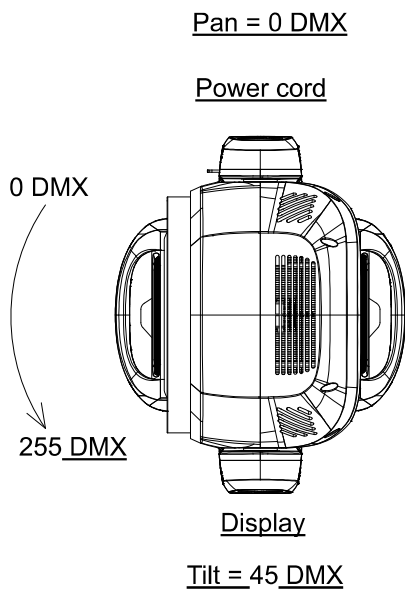
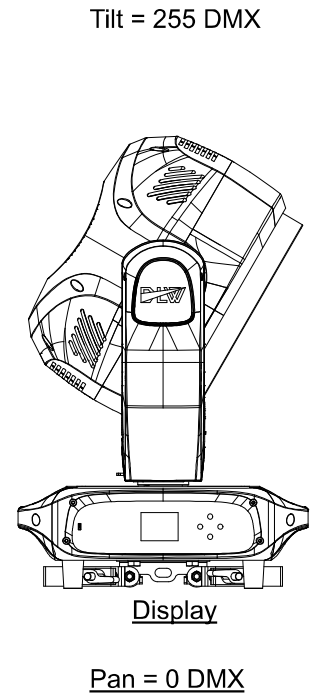
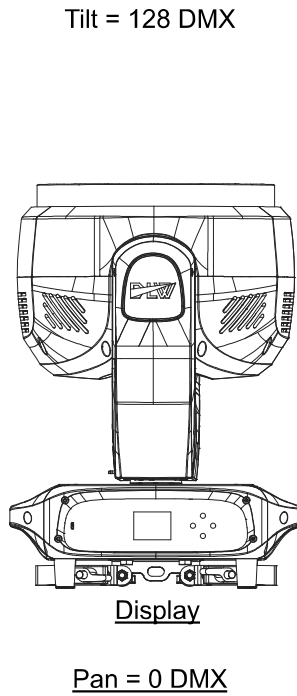
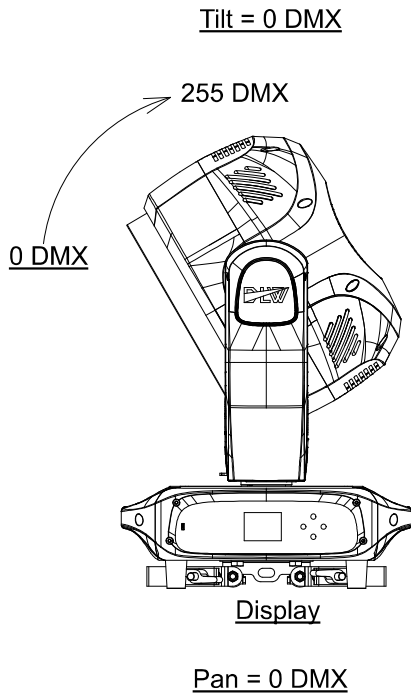
- Maybe step motor or motor leading wire are damaged.
- Maybe drive circuit of motor is damaged.

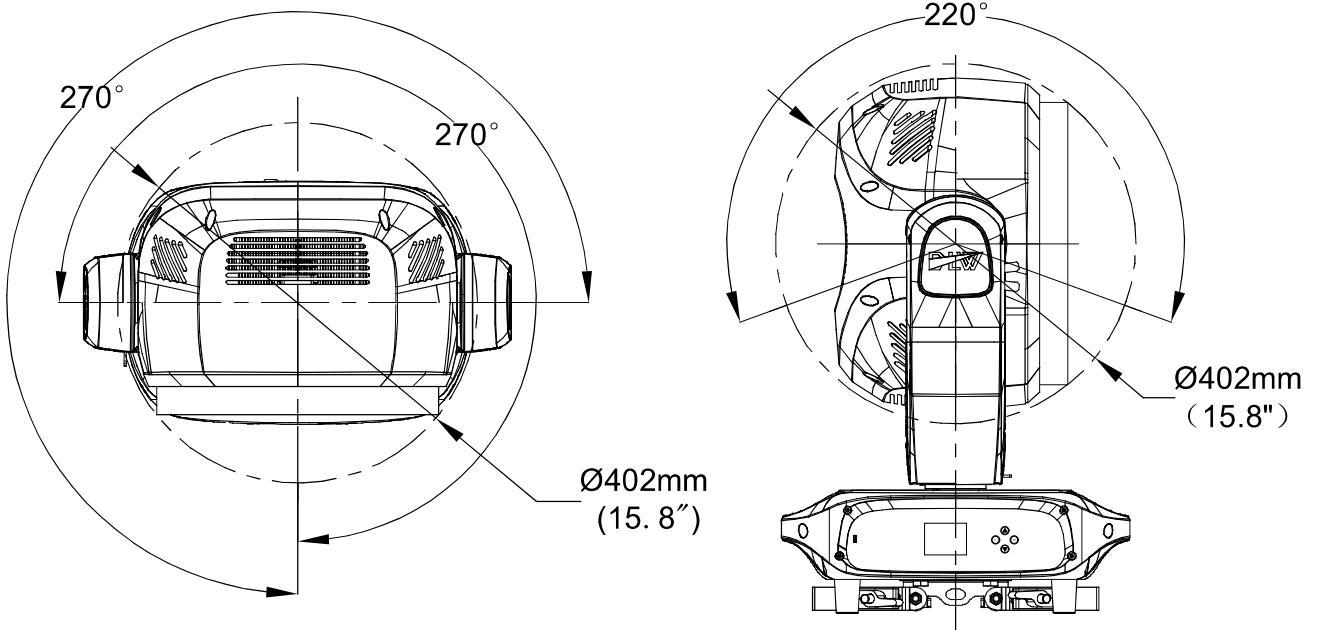
Sometimes leds on sometimes lamp off:

- Check if the voltage is too high or too low, when the lamp is abnormal lighting.
- It is necessary of changing the fan, if inner temperature is too high.

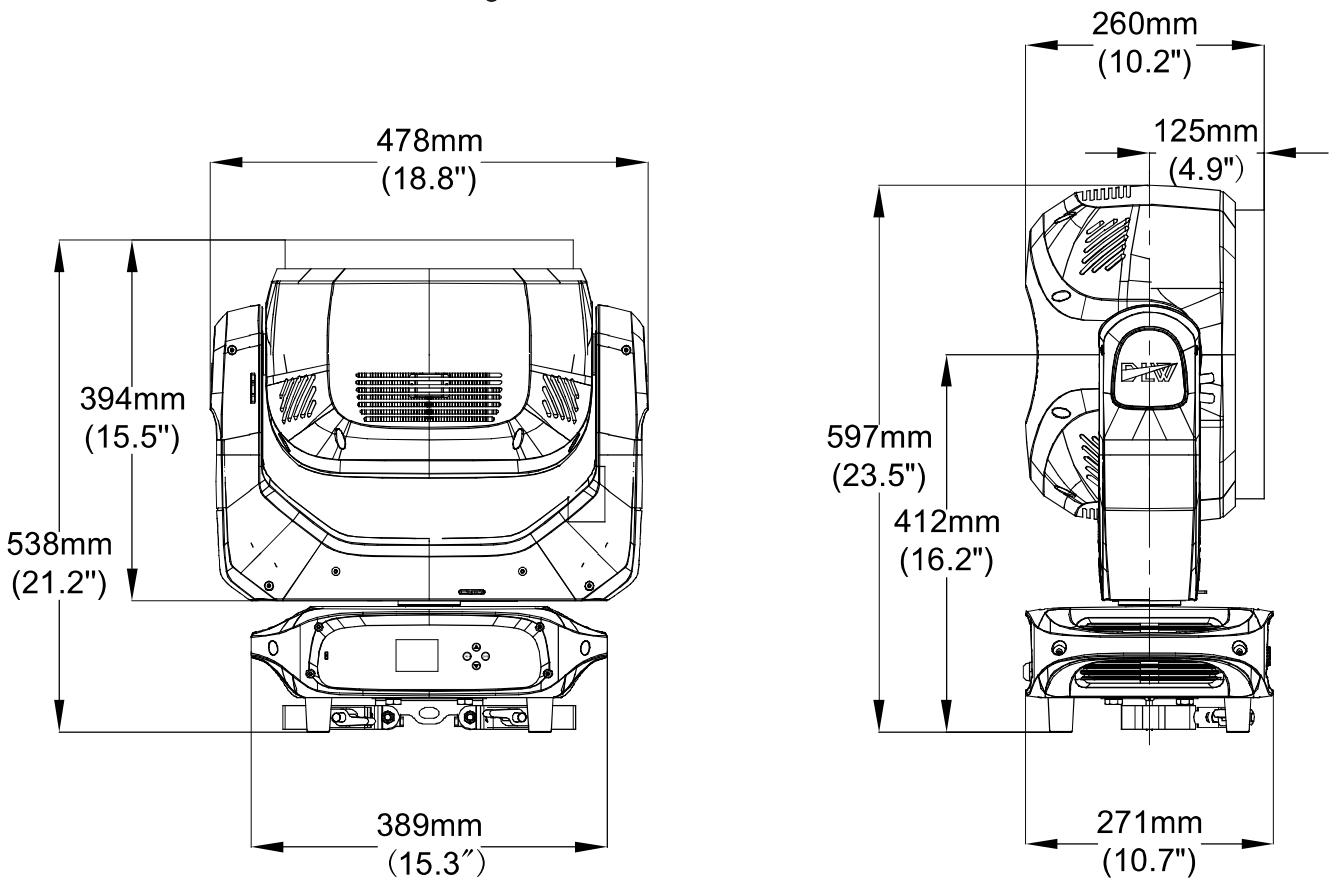
Attached 1: Angle Range Application & Fixture Dimension Drawing

● Fixture using angle range



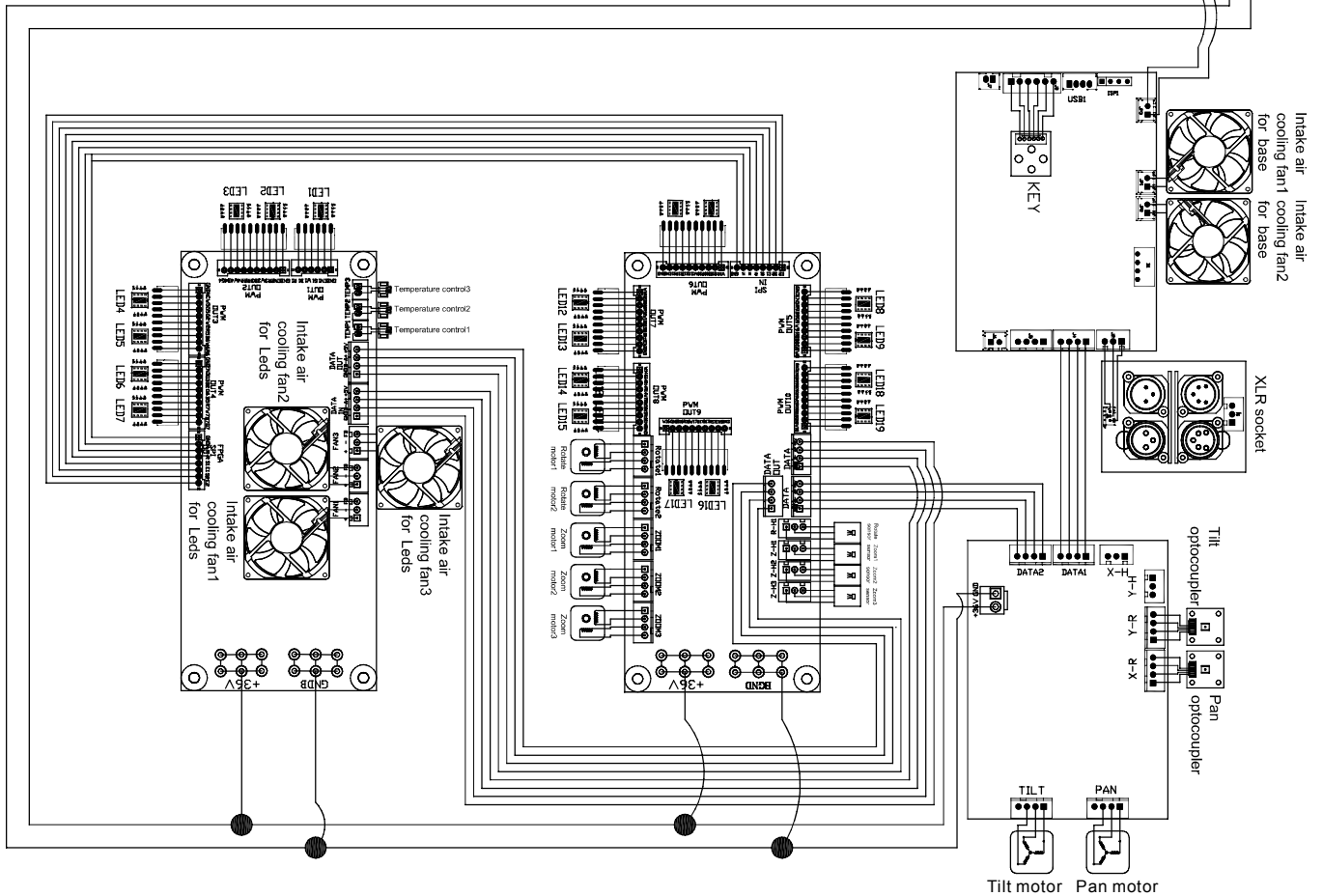
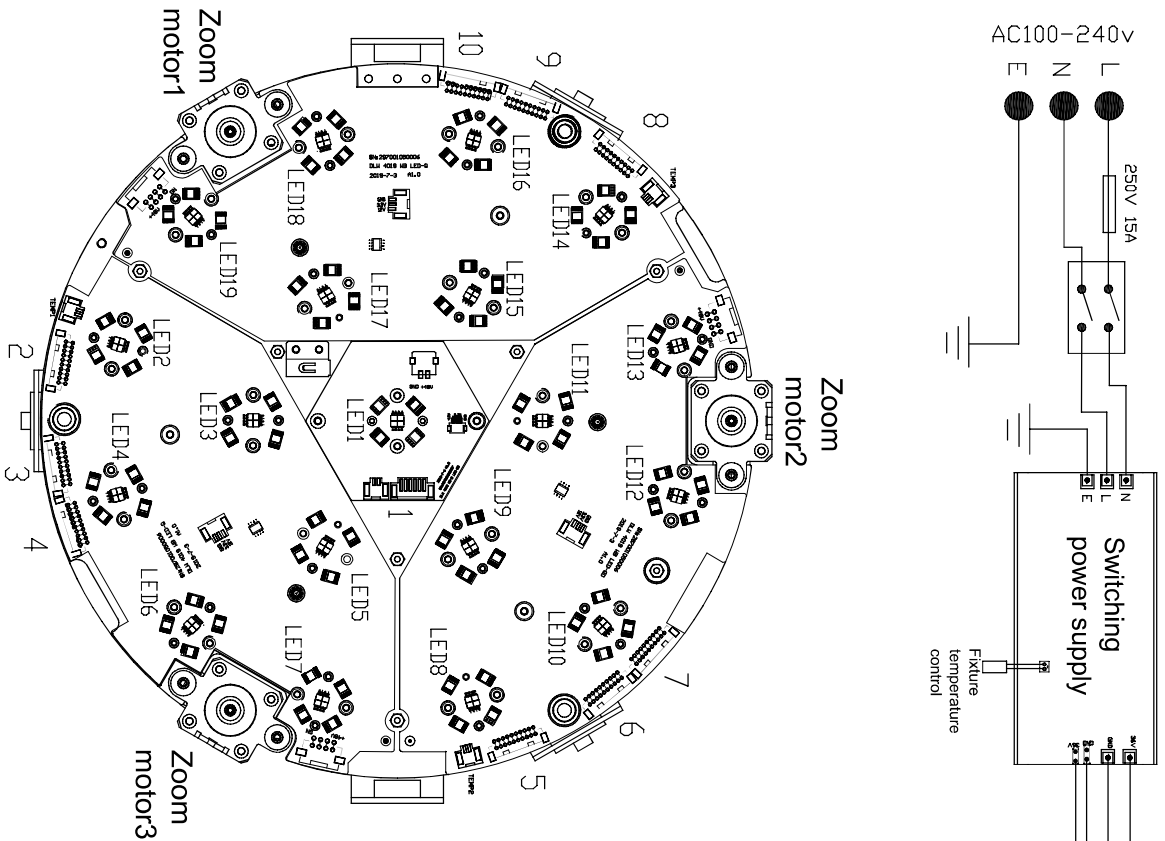


● Fixture Dimension Drawing



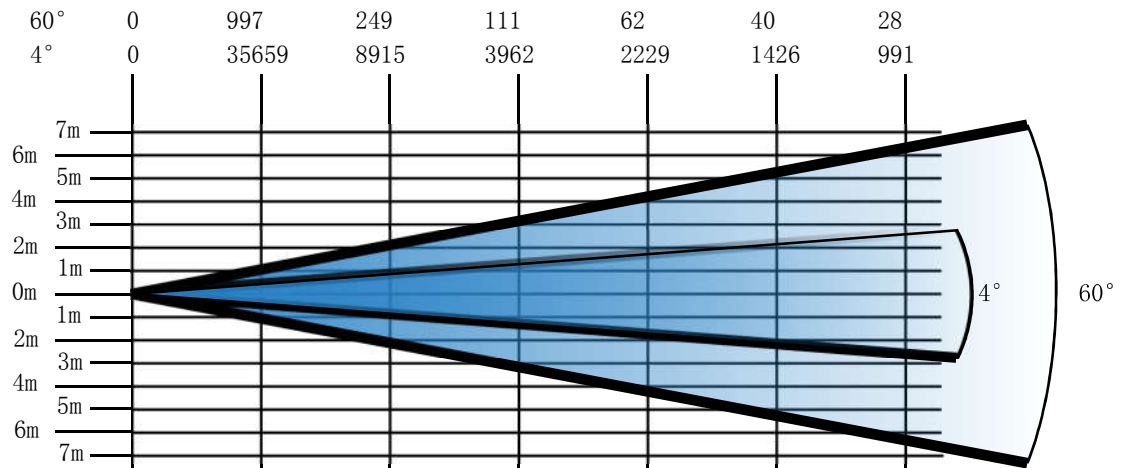
Attached2: DLW L4019C4 BEE Electrical Diagram

Leds layout diagram



Attached3: DLW L4019C4 BEE Illumination Diagram

Illuminance (Lux)



Distance(m)
Spot Dia(m)

Distance (m)	0	5m	10m	15m	20m	25m	30m
60° Spot Dia(m)	0	5.29	10.58	15.86	21.15	26.44	31.73
4° Spot Dia(m)	0	0.35	0.71	1.06	1.41	1.77	2.12



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