FL2C Series LED Flood Light

Applications

- Sports Facilities lighting (football field, golf course...)
- Main Thoroughfare lighting (airport, crossroad...)
- Wall & Billboard lighting

Standard Colors

White

Blue

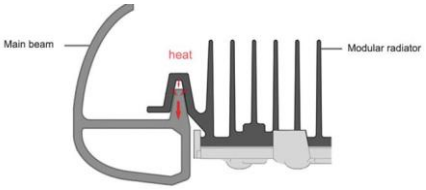
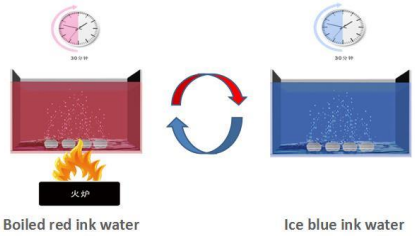
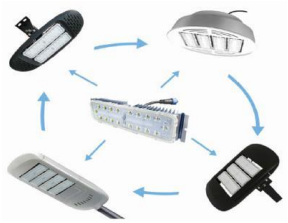
Black

Gray

Features

- Honeycomb briquette burning effect and the whole structure cooling technology;
- All metal structure, high mechanical strength;
- Double-coupling IP68 protection, highest waterproof level;
- Ergonomic light distribution to achieve uniform illuminating effect;
- Free modular serialization and full power range solution;
- Intelligent constant current driving technology to guarantee the safety of LED use.

Technical Advantages

		
Air Convection Effect	Whole-structure Heat Dissipation	Tool-less Maintenance
		
Double-coupling IP68 Protection	High-efficacy LED Light Source	Flexible Combinations of Modules

Electrical & Photometric

- Adopt Lumileds LEDs

Model	Input Voltage (V) Frequency Range (Hz)	Drive Current (mA)	Power (w)	M1A/M2A		M8B		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI
				Luminous Efficacy (lm/w)	Lumens (lm)	Luminous Efficacy (lm/w)	Lumens (lm)					
FL2C-1	AC100-240 50/60	700	40	105±5	4200±200	130±5	5200±200	0.95	88%	Lumileds	3000① 4000 5000 5700	≥70
		860	50	100±5	5000±250	125±5	6250±250					
		1050	60	95±5	5700±300	117±5	7020±300					
FL2C-2	AC100-240 50/60	700	80	110±5	8800±400	130±5	10400±400	0.95	91%			
		860	100	105±5	10500±500	125±5	12500±500					
		1050	120	100±5	12000±600	117±5	14040±600					
FL2C-3	AC100-240 50/60	700	120	110±5	13200±600	130±5	15600±600	0.95	91%			
		860	150	105±5	15750±750	125±5	18750±750					
		1050	180	100±5	18000±900	117±5	21060±900					
FL2C-4	AC100-240 50/60	700	160	110±5	17600±800	130±5	20800±800	0.95	91%			
		860	200	105±5	21000±1000	125±5	25000±1000					
		1050	240	100±5	24000±1200	117±5	28080±1200					
FL2C-5	AC100-240 50/60	700	200	110±5	22000±1000	130±5	26000±1000	0.95	91%			
		860	250	105±5	26250±1250	125±5	31250±1250					
		1050	300	100±5	30000±1500	117±5	35100±1500					
FL2C-6	AC100-240 50/60	700	240	110±5	26400±1200	130±5	31200±1200	0.95	91%			
		860	300	105±5	31500±1500	125±5	37500±1500					
		1050	360	100±5	36000±1800	117±5	42120±1800					
FL2C-7	AC100-240 50/60	700	280	110±5	30800±1400	130±5	36400±1400	0.95	91%			
		860	350	105±5	36750±1750	125±5	43750±1750					
		1050	420	100±5	42000±2100	117±5	49140±2100					
FL2C-8	AC100-240 50/60	700	320	110±5	35200±1600	130±5	41600±1600	0.95	91%			
		860	400	105±5	42000±2000	125±5	50000±2000					
		1050	480	100±5	48000±2400	117±5	56160±2400					
FL2C-10	AC100-240 50/60	700	400	110±5	44000±2000	130±5	52000±2000	0.95	91%			
		860	500	105±5	52500±2500	125±5	62500±2500					
		1050	600	100±5	60000±3000	117±5	70200±3000					
FL2C-12	AC100-240 50/60	700	480	110±5	52800±2400	130±5	62400±2400	0.95	91%			
		860	600	105±5	63000±3000	125±5	75000±3000					
		1050	720	100±5	72000±3600	117±5	84240±3600					
FL2C-14	AC100-240 50/60	700	560	110±5	61600±2800	130±5	72800±2800	0.95	91%			
		860	700	105±5	73500±3500	125±5	87500±3500					
		1050	840	100±5	84000±4200	117±5	98280±4200					
FL2C-16	AC100-240 50/60	700	640	110±5	70400±3200	130±5	83200±3200	0.95	91%			
		860	800	105±5	84000±4000	125±5	100000±4000					
		1050	960	100±5	96000±4800	117±5	112320±4800					

① For M1A/M2A modules, Luminous Efficacy of 3000K is 5% lower than other CCTs.

Electrical & Photometric

- Adopt Customized Chips from World-leading Supplier

Model	Input Voltage (V) Frequency Range (Hz)	Drive Current (mA)	Power (w)	M16		Power Factor	Power Efficiency	LED Brand	CCT (k)	CRI
				Luminous Efficacy (lm/w)	Lumens (lm)					
FL2C-7	AC100-240 50/60	800(9P2S)	280	150±8	42000±2240	0.95	91%	Customized Chips from World-leading Supplier	3000 4000 5000 5700	≥70
		800(14P2S)	280	158±8	44240±2240					
		1000(9P2S)	350	143±8	50050±2800					
		1000(14P2S)	350	152±8	53200±2800					
		1200(9P2S)	420	135±8	56700±3360					
		1200(14P2S)	420	145±8	60900±3360					
FL2C-8	AC100-240 50/60	800(9P2S)	320	150±8	48000±2560	0.95	91%			
		800(14P2S)	320	158±8	50560±2560					
		1000(9P2S)	400	143±8	57200±3200					
		1000(14P2S)	400	152±8	60800±3200					
		1200(9P2S)	480	135±8	64800±3840					
		1200(14P2S)	480	145±8	69600±3840					
FL2C-10	AC100-240 50/60	800(9P2S)	400	150±8	60000±3200	0.95	91%			
		800(14P2S)	400	158±8	63200±3200					
		1000(9P2S)	500	143±8	71500±4000					
		1000(14P2S)	500	152±8	76000±4000					
		1200(9P2S)	600	135±8	81000±4800					
		1200(14P2S)	600	145±8	87000±4800					
FL2C-12	AC100-240 50/60	800(9P2S)	480	150±8	72000±3840	0.95	91%			
		800(14P2S)	480	158±8	75840±3840					
		1000(9P2S)	600	143±8	85800±4800					
		1000(14P2S)	600	152±8	91200±4800					
		1200(9P2S)	720	135±8	97200±5760					
		1200(14P2S)	720	145±8	104400±5760					
FL2C-14	AC100-240 50/60	800(9P2S)	560	150±8	84000±4480	0.95	91%			
		800(14P2S)	560	158±8	88480±4480					
		1000(9P2S)	700	143±8	100100±5600					
		1000(14P2S)	700	152±8	106400±5600					
		1200(9P2S)	840	135±8	113400±6720					
		1200(14P2S)	840	145±8	121800±6720					
FL2C-16	AC100-240 50/60	800(9P2S)	640	150±8	96000±5120	0.95	91%			
		800(14P2S)	640	158±8	101120±5120					
		1000(9P2S)	800	143±8	114400±6400					
		1000(14P2S)	800	152±8	121600±6400					
		1200(9P2S)	960	135±8	129600±7680					
		1200(14P2S)	960	145±8	139200±7680					

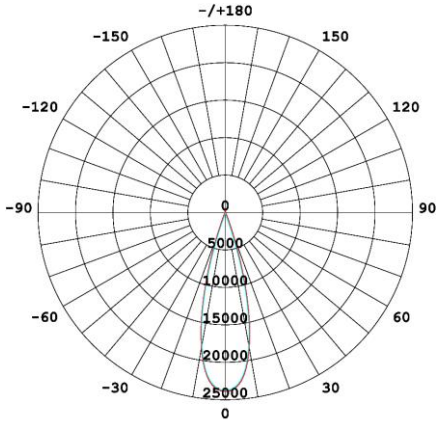
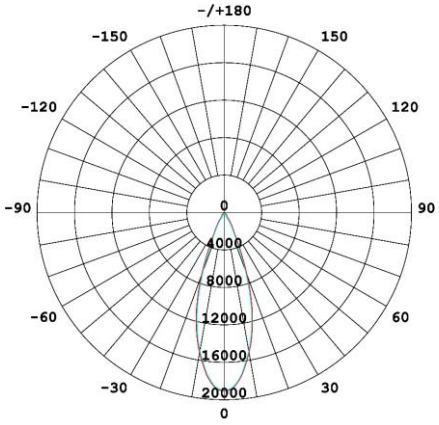
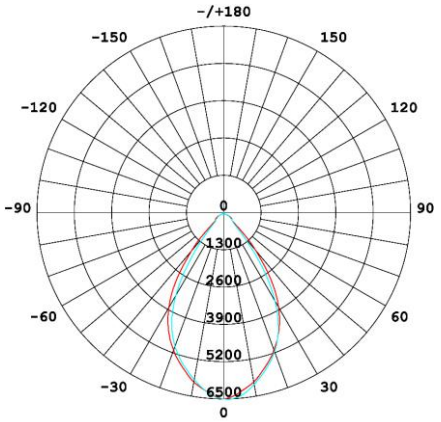
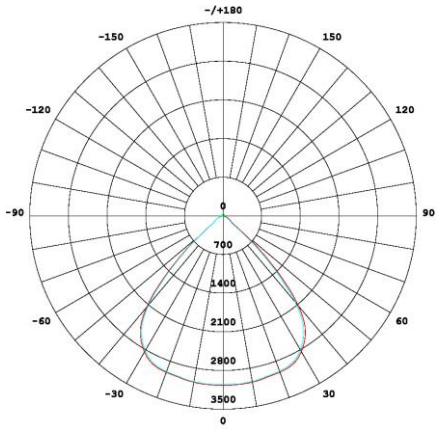
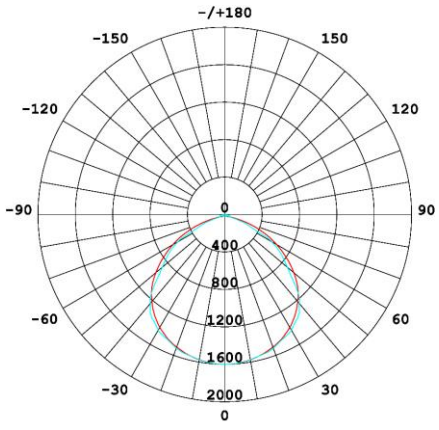
Working environment & Packing

Model	Product Dimensions (mm)	Carton Size (mm)	N.W (kg)	G.W (kg)	Working Environment	Storage Temperature	IP Rating	Surge Protection	LED Life Span (h)	Housing Material
FL2C-1	360*200*95	430*265*150	3.6	4.1	-40℃~+50℃, 10%~90%RH.	-40℃~+50℃	The Whole Fixture IP67	≥10	>50,000	Metal
FL2C-2	360*200*175	430*265*230	4.7	5.4						
FL2C-3	360*260*255	430*335*330	6.0	7.0						
FL2C-4	360*260*335	475*430*210	7.3	8.5						
FL2C-5	360*360*415	615*430*210	9.5	11.0						
FL2C-6	360*360*495	660*430*210	10.4	12.0						
FL2C-7	360*360*575	695*430*210	11.9	13.5						
FL2C-8	360*360*655	785*430*230	13.1	14.8						
FL2C-10	680*410*395	770*510*335	28.9	31.9						
FL2C-12	680*490*395	770*590*335	31.3	34.8						
FL2C-14	680*570*395	770*670*335	34.3	38.2						
FL2C-16	680*650*395	770*750*335	36.4	40.7						

Note: Above data of weight are all typical values.

Light Distributions

- M8B LED module

25D1325	40D5340	60D2360
Beam Angle (50%) 25DEG	Beam Angle (50%) 40DEG	Beam Angle(50%) 60DEG
		
90D5390	LBN1310	
Beam Angle(50%) 90DEG	Beam Angle (50%)110DEG	
		

Design Features

- External Design Features

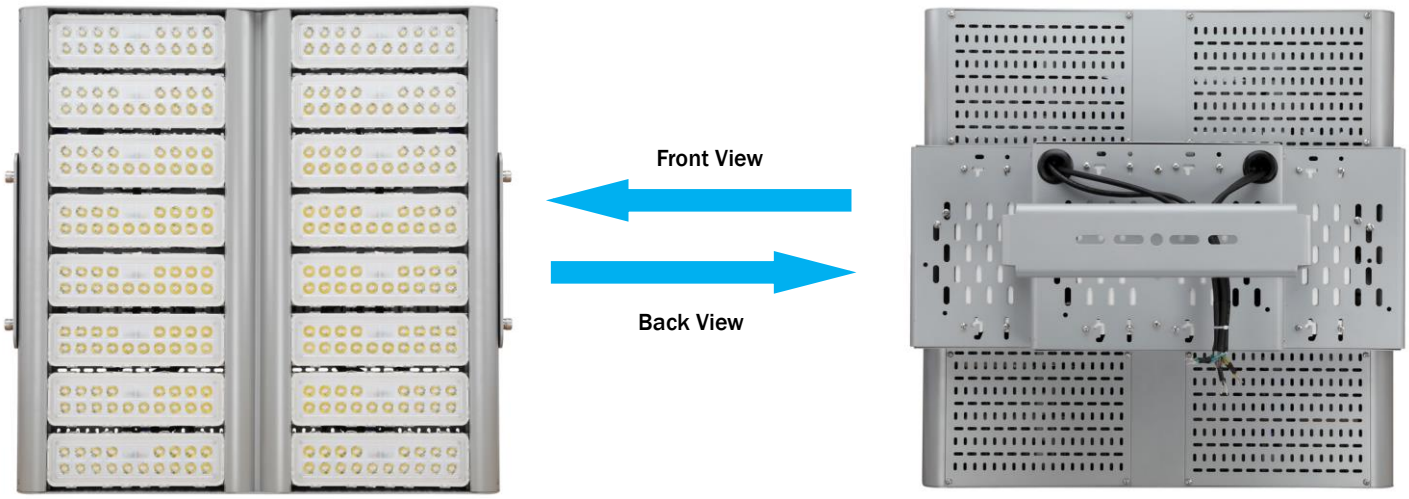
Front View

Back View

- Installation Design Features

Design Features

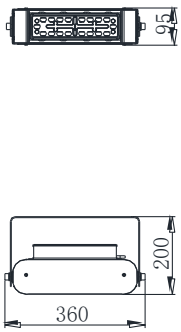
- External Design Features



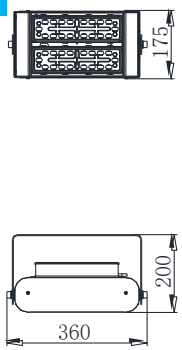
- Installation Design Features

Dimensions

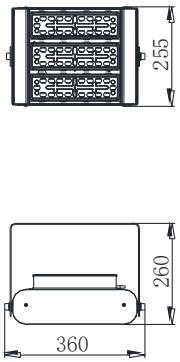
FL2C-1



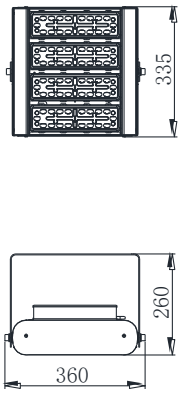
FL2C-2



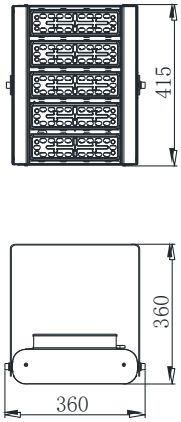
FL2C-3



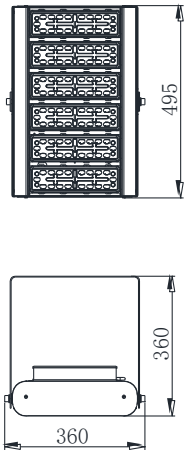
FL2C-4



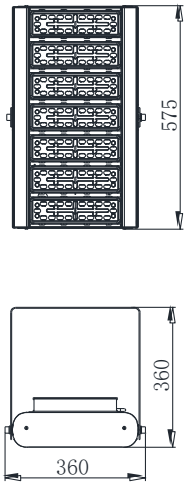
FL2C-5



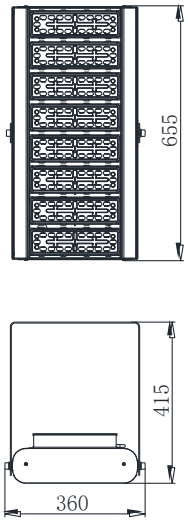
FL2C-6



FL2C-7

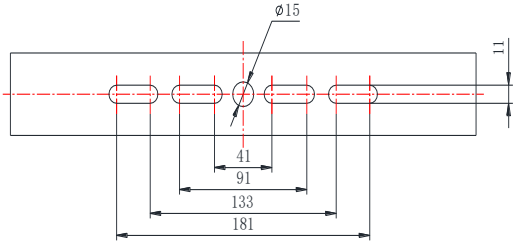


FL2C-8



Mounting Hole

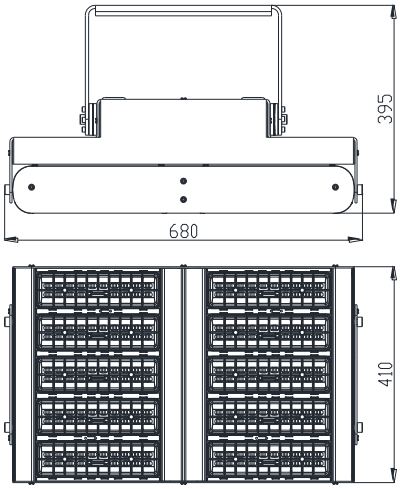
FL2C-X①



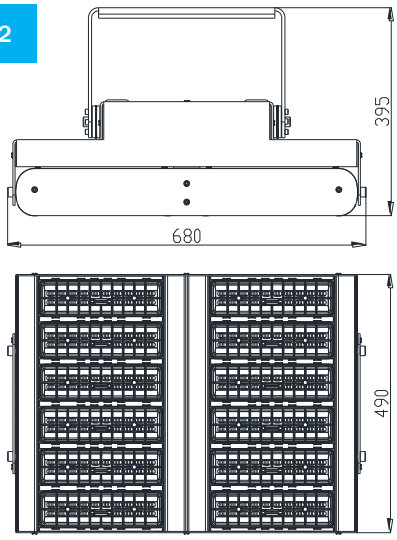
① Position of mounting hole between FL2C-1~FL2C-8 are the same.

Dimensions

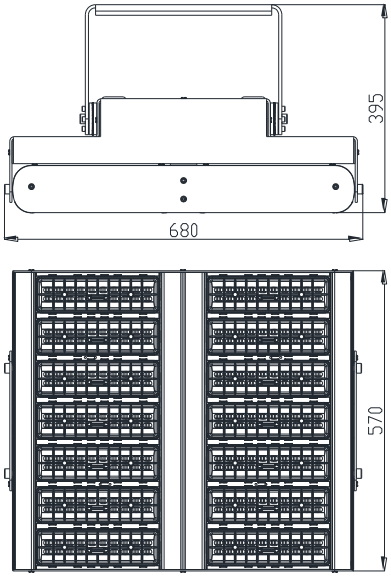
FL2C-10



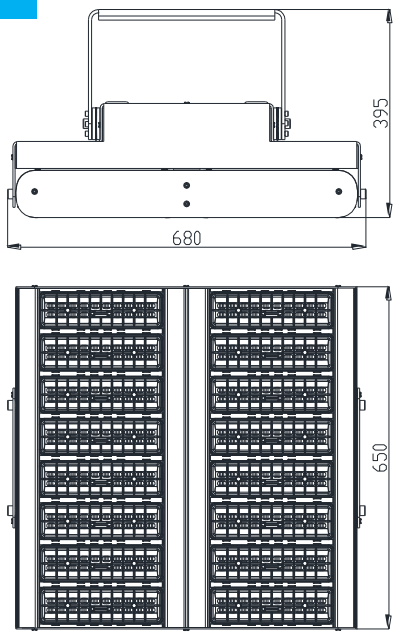
FL2C-12



FL2C-14

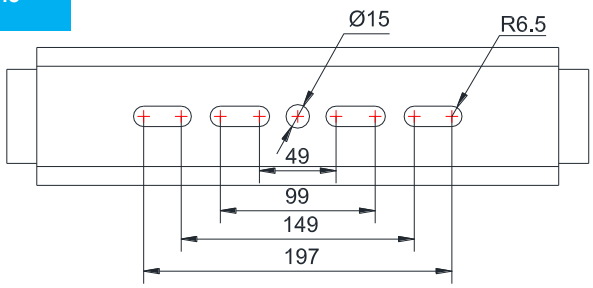


FL2C-16



Mounting Hole

FL2C-X②



② Position of mounting hole between FL2C-10~FL2C-16 are the same.

Installation

FL2C-8

			
1. Fix the luminary onto the mounting surface with M10 screws (provided by customer) at the bracket.	2. Connect to the AC power cable (make sure it sufficiently grounded).	3. Loosen the two M10x30 screws at bracket joint.	4. Set the lamp to the correct angle.
			
5. Tighten up the screws. Installation finished.			

FL2C-16

			
1. Fix the luminary onto the mounting surface with M12 screws (provided by customer) at the bracket.	3. Connect to the AC power cable (make sure it sufficiently grounded).	3. Loosen the two M10x40 screws at bracket joint.	4. Set the lamp to the correct angle.
			
5. Tighten up the screws. Installation finished.			

Maintenance

Driver & Electrical Parts

FL2C-8

			
1. Loosen the two M10x30 screws at bracket joint. Put the bracket down.	2. Unscrew the eight M4x10 screws to open the back cover.	3. Take the back cover from the lamp.	4. Unscrew the two M4x16 cross recessed pan head screws on the cable clip.
			
5. Unscrew the two M4x10 screws at the ends of the driver set.	6. Disconnect the driver from the connector to modules.	7. Take the connector out through the hole.	8. Replace the failed driver set with a new one.
			
9. Connect and tighten up each part back step by step. Maintenance finished.			

FL2C-16

			
1. Loosen the two M10x40 screws at bracket joint. Put the bracket down.	2. Unscrew the four M10x30 screws on the both ends of the mounting bracket of drivers.	3. Unscrew the four M5x8 screws on the top of the mounting bracket of drivers.	4. Raise the mounting bracket of drivers.
			
5. Disconnect the driver from the connector to modules.	6. Unscrew the two M4x16 cross recessed pan head screws on the cable clip.	7. Unscrew the four M4x10 screws at the ends of the driver set.	8. Replace the failed driver set with a new one.
			
9. Connect and tighten up each part back step by step. Maintenance finished.			

Maintenance

Modules

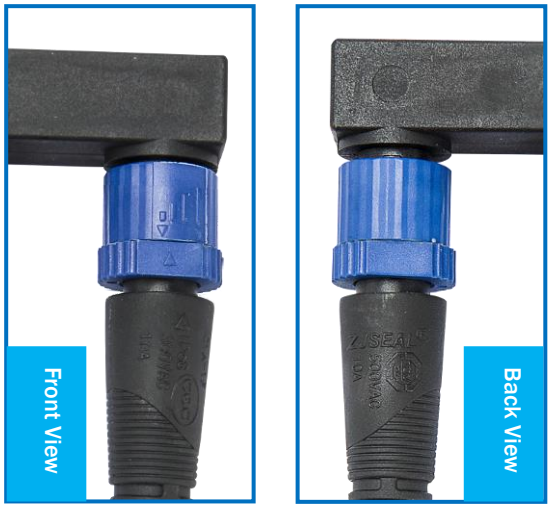
FL2C-8

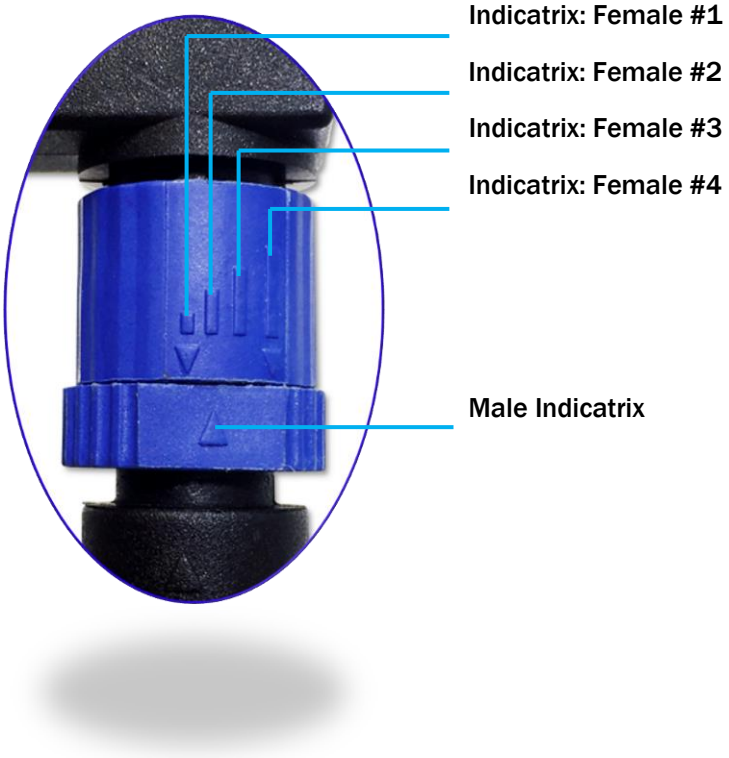
			
1. Loosen the two M10x30 screws at bracket joint. Put the bracket down.	2. Unscrew the eight M4x10 screws to open the back cover.	3. Take the back cover from the lamp.	4. Disconnect the module from the connector to the drivers.
			
5. Unscrew the four M5x12 screws at the two sides of the side covers.	6. Take the side covers from the lamp.	7. Unscrew the two M4x10 screws at both ends of the failed module.	8. Replace the failed module set with a new one.
			
9. Connect and tighten up each part back step by step. Maintenance finished.			

FL2C-16

			
1. Loosen the two M10x40 screws at bracket joint. Put the bracket down.	2. Unscrew the four M10x30 screws on the both ends of the mounting bracket of drivers.	3. Unscrew the four M5x8 screws on the top of the mounting bracket of drivers.	4. Disconnect the driver from the connector to modules. Put aside the mounting bracket of drives.
			
5. Unscrew the eight M4x10 screws to open the back cover above the failed module.	6. Take the back cover from the lamp. Take the connector out through the hole.	7. Disconnect the module from the connector.	8. Unscrew the two M5x12 screws on the side covers.
			
9. Unscrew the two M5x12 screws on the front panel. Take the front panel from the lamp.	10. Unscrew the two M4x10 screws at both ends of the failed module.	11. Replace the failed module set with a new one.	12. Connect and tighten up each part back step by step. Maintenance finished.

Connectors Operation Guide





Spin the male terminal clockwise. When the male indicatrix points between indicatrix female #2 and #3, and the gap between male and female terminals is extremely small, the connectors are well connected; otherwise, there will be risks in its waterproof performance.

When the gap between male and female terminals is extremely small, if any looseness can be sensed, please spin the male terminal clockwise until tight.