

28000 Im Flood Light Data Sheet

F2 Series



IP66



P/N	F2280X-201*	F2280X-601*	F2280X-001*
Picture			
Rated Lumen**	27800 Im (Measured value:27809 Im)	28000 Im (Measured value:28136.2 Im)	29000 Im (Measured value:29154.2 Im)
Rated Voltage	100~240V, 50/60Hz		
Power Factor	>0.95		
Lighting Efficacy**	116.5 lm/W	116 lm/W	121.8 lm/W
Rated Power	240W		
Color Temp	6000K / 3000K		
CRI	>80, R9>0		
Beam Angle	20°	60°	110°
Central lux@6000K (1M/2M/3M)	91891Lx/22973Lx/10210Lx	20116Lx/5029Lx/2235Lx	10963Lx/2741Lx/1218Lx
Dimension(±2mm)	470mm(L) x 407mm(W) x 60mm(H)		
Weight(±5%)	7000g	7000g	6600g

* X Can be replaced by C:6000K/ W:3000K.

**The value is measured at 6000K.



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Introduction

【 F2280 】 28000Lm LED Out-Door Floodlight is a revolutionary product, its higher efficacy (116Lm/W) and powered by Meanwell(ELG) provides a better energy saving solution, longer product life time, and good stability(IP66) in out-door environment.

Features

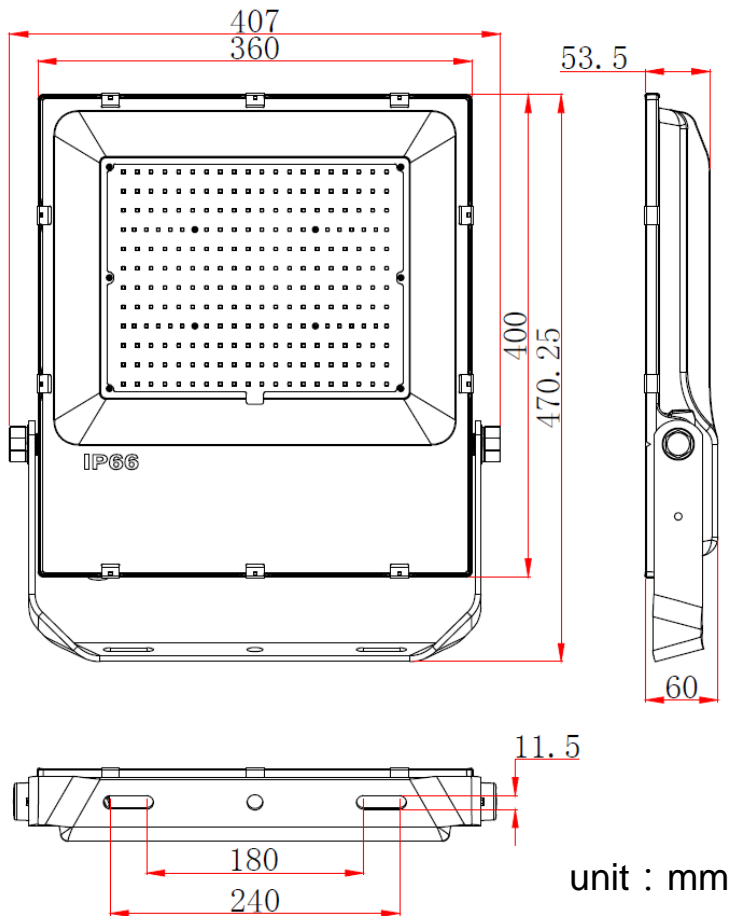
1. Use fin-structure aluminum housing for excellent thermal dissipation and light weight.
2. Using high efficacy LED module to perform 116 steady lighting lumen per wattage.
3. Higher color rendering, CRI>80 with R9>0
4. Breather embedded to avoid glass fogging.
5. IP66 waterproof level.
6. Testing report ready by TAF lab (IP66 and light density distribution for 6000K)
7. Easy to install.
8. Meet RoHS standard.

Application

1. Landscape lighting
2. Decorative lighting
3. Billboard, parking lot, factory, school, hospital etc.
4. Other outdoor lighting



Dimension



Photometry

Central Lux@6000K

20°

60°

110°

1M 91890.8LUX

1M 20115.9LUX

1M 10962.9LUX

2M 22972.7LUX

2M 5029.0LUX

2M 2740.7LUX

3M 10210.1LUX

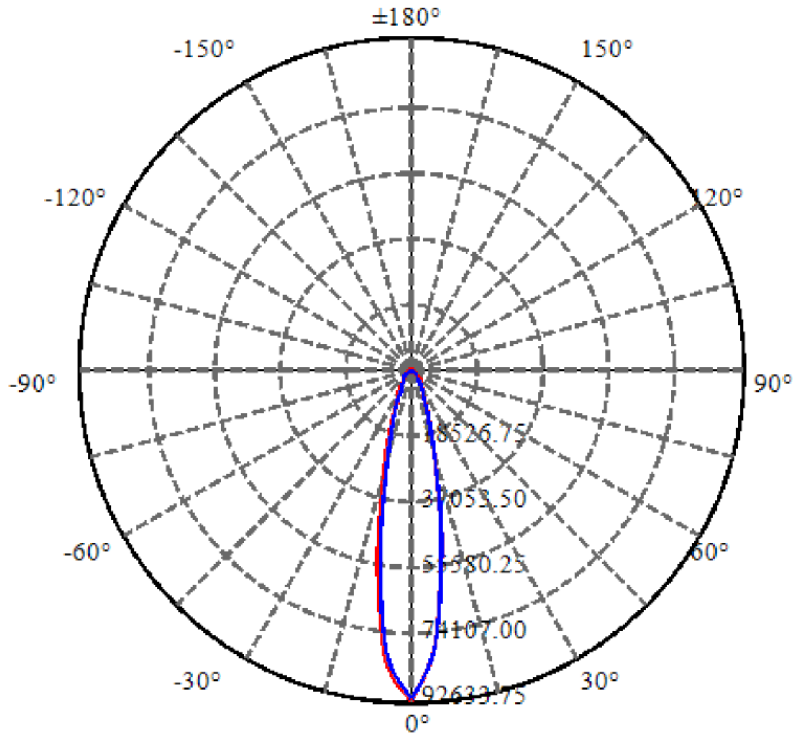
3M 2235.1LUX

3M 1218.1LUX

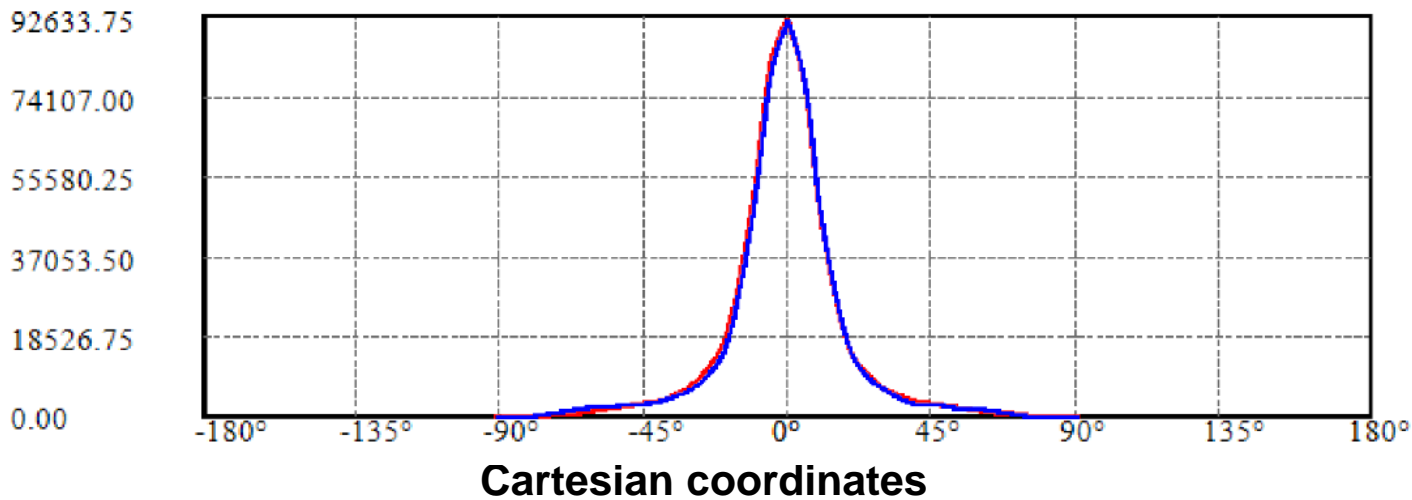
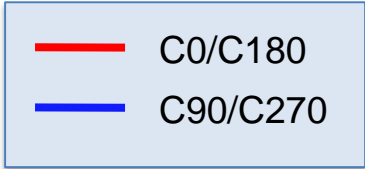


Photometry

F2280C-201 @220V



Isocandela diagram

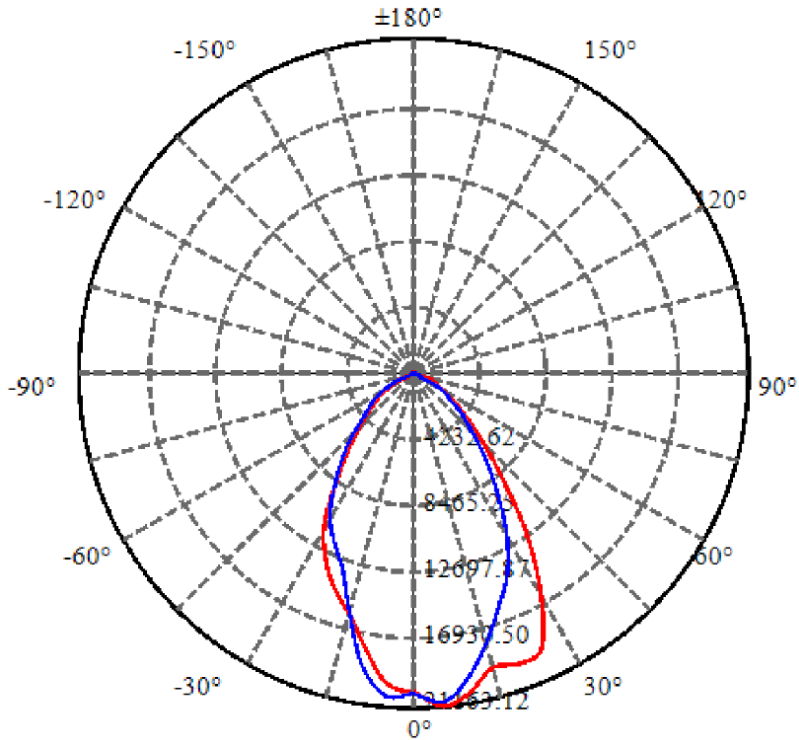


Cartesian coordinates

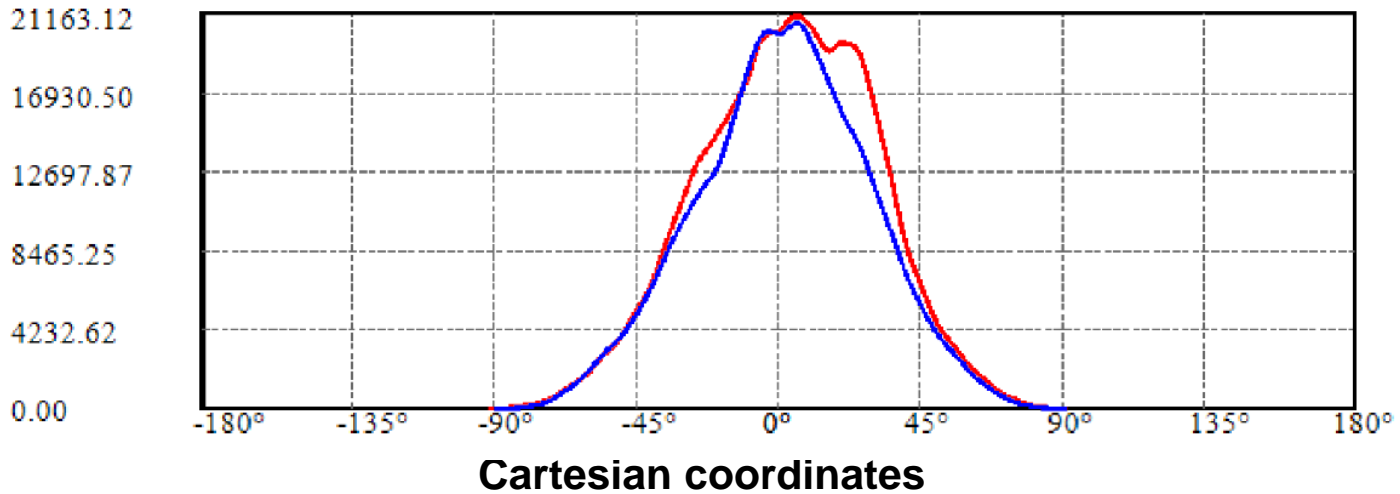
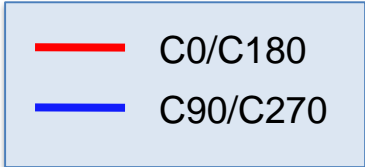


Photometry

F2280C-601 @220V



Isocandela diagram

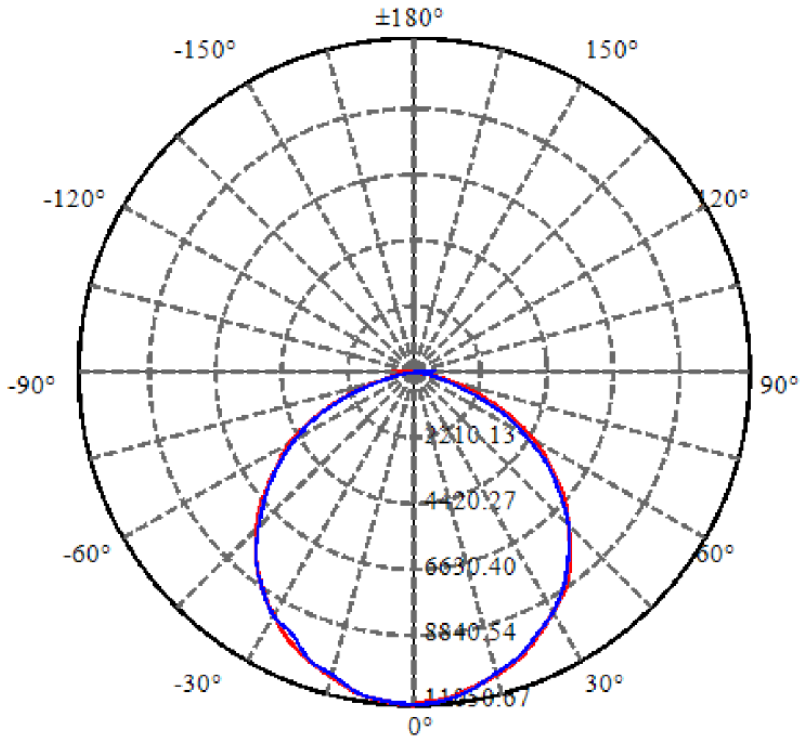


Cartesian coordinates

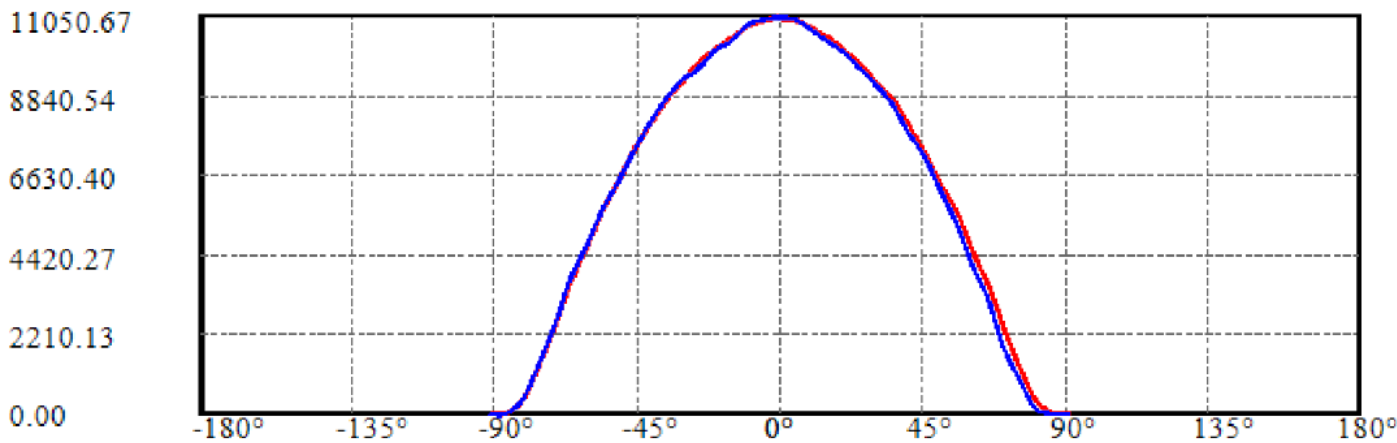
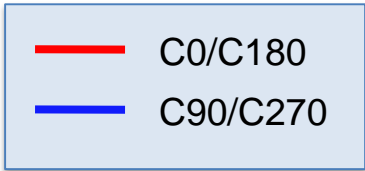


Photometry

F2280C-001 @220V



Isocandela diagram



Cartesian coordinates



Operation Condition

Input voltage : 100~240VAC, 50/60Hz

Operation ambient temperature : -30°C to +40 °C

Storage temperature Range : -40°C to +60 °C

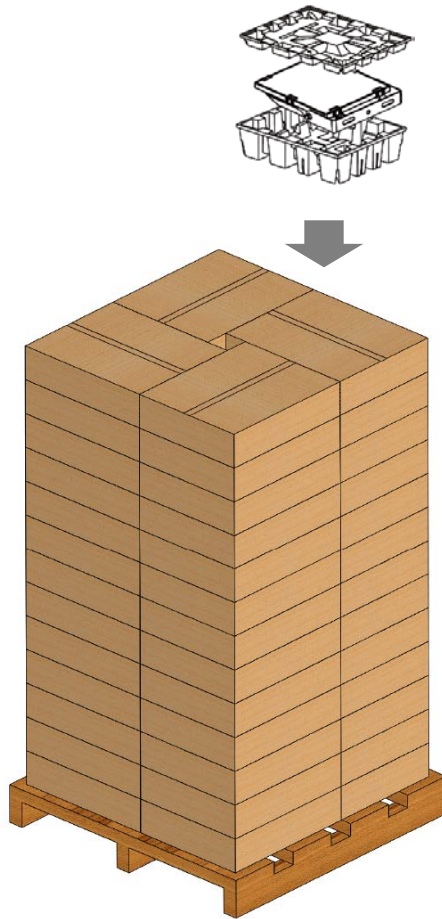
Specification

Parameter	F2280C-201	F2280C-601	F2280C-001	Unit
AC Input Voltage		100~240		VAC
Frequency		50/60		Hz
Operation Ambient Temperature		-30 to+40		°C
Color Temperature		6000 / 3000		K
Rated Lumen	27800 (Measured value:27809)	28000 (Measured value:28136.2)	29000 (Measured value:29154.2)	lm
Lighting Efficacy	116.5	116	121.8	lm/W
CRI		>80,R9>0		
Dimension(±2mm)		470 x 407 x 60		mm
Weight(±5%)	7000	7000	6600	g
Lifetime		40000		hr
Beam Angle	20	60	110	degree

- Notes:**
1. Luminous flux is measured at 5700K and with an accuracy of ±10%.
 2. Luminous flux is measured at TA= 25°C and reaches thermal equilibrium.
 3. Power unit inside.



Packing



55.5(L)*46.0(W) *13.5(H) / box
1 layer= 4 ea total 13 layers
1 pallet= 52 ea F2280X-X01

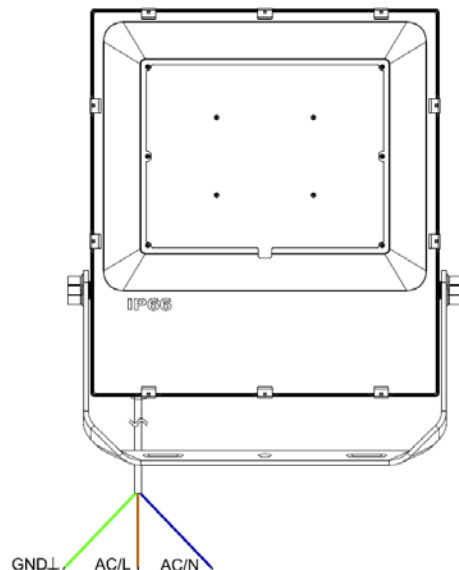
Pallet dimension: 110*110*13

Unit : cm

Wiring Instruction

Brown	AC/L
Blue	AC/N
Yellow/Green	Ground

AC Input : 100~240V
Frequency : 50/60 Hz



Installation Instruction

Caution:

1. Read the instruction carefully before installation.
2. Make sure the power is off before installation.
3. Make sure structure is strong enough for drilling process before installation.
4. Make sure no high power-consumption equipments nearby the lamp (e.g., elevator, refrigerator, air-conditioner). It will generate surge that may damage the lamp while start up.
5. Non-professional staff shall not use any tools to disassemble or repair lamps.
6. The screw sizes of each lamps are different. Please select correct size of wrench for installation.

			
Unscrew the bracket screw by wrench in a counterclockwise direction.	Remove both sides of screws.	Remove the bracket and keep the related accessories carefully.	Put the bracket on the structure and mark the oval-hole shapes on the structure.
			
Finish the mark process.	Drill two holes at the center of the marks by electric drill.	Take 2 sets of anchoring screws(prepared by installer)	Knock anchoring screws into the holes of structure by hammer.
			
Remove the nuts and washers of anchoring screws.	Fit the bracket through the anchoring screws. Put washer and nut by sequence and screw it by wrench.	Align the holes of bracket with the holes of lamp, then screw it firmly by wrench in a clockwise direction.	Make sure lamp and bracket installed firmly.

Note: 1. Make sure the power is off before installation. Then do wiring process after installation.

2. Make sure the screws are firm after installation. Please change the position and repeat step 4-8 once the holes of structure are loose.


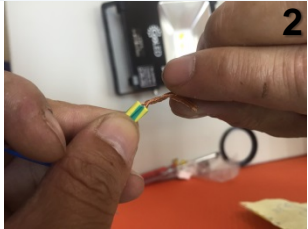
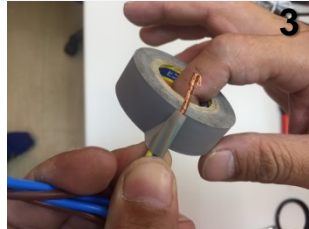

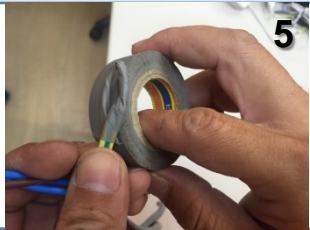

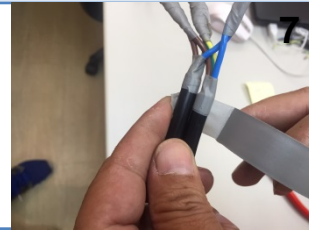



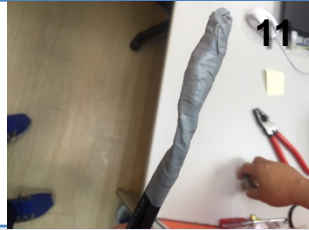
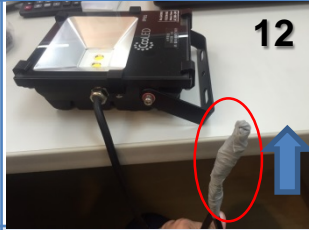


Out-Door Wiring for Water-Proof

Caution:

1. Read the instruction carefully before wiring.
2. Make sure the power is off before installation.
3. Make sure no high power-consumption equipments nearby the lamp (e.g., elevator, refrigerator, air-conditioner). It will generate surge that may damage the lamp while start up.
4. Non-professional staff shall not use any tools to disassemble or repair lamps.
5. Products are available for AC 100V~240V, 50/60Hz. DO NOT install lamp to the environment out of the range.

Note: Emergency handling: Turn off the power when the lamp is abnormal.

 <p>1</p>	 <p>2</p>	 <p>3</p>	 <p>4</p>
<p>Tie the 3-cord cable of lamp by insulation tape to cover all branch area for water-proof. Same as the cable of AC side.</p>	<p>Twist bare wires of lamp ground cord and AC ground cord together at the same direction. Same as live cords(L) and neutral cords(N).</p>	<p>Fold up the front end of bare wires to prevent tape falling off. Then cover it by isolation tape.</p>	<p>Continue winding bare wires by tape. It should be over the front end of bare wires 4 to 8 cm.</p>
 <p>5</p>	 <p>6</p>	 <p>7</p>	 <p>8</p>
<p>Pull the surplus tape back to prevent bare area from getting vapor.</p>	<p>Repeat step 4 and 5 at least 3 times. Refer to Electrical Engineering Rules about winding methods and standards.</p>	<p>Make sure 3 groups of wires are covered by tape firmly, then start to wind the tape from the branch point of two main cords.</p>	<p>Keep winding the tape and ensure two main cords covered by tape firmly.</p>
 <p>9</p>	 <p>10</p>	 <p>11</p>	 <p>12</p>
<p>Continue winding 3 groups of wires by tape. It should be over the front end of bare wires 10 to 15 cm.</p>	<p>Pull the surplus tape back to prevent bare area from getting vapor.</p>	<p>Repeat step 8 and 9 at least 3 times. Refer to Electrical Engineering Rules about winding methods and standards.</p>	<p>Fold up the cords with tape and face up. The cord position has to lower than lamp, or vapor will follow the cords into the lamp when it rains.</p>

Note: Turn off the power during wiring to prevent lamp damage because of abnormal wiring.



Warranty

We offer **two-year limited warranty** on the entire system.

1. Under normal condition with no mechanical damage or LED light module disassembly, LED lumen degradation is within 30%. (Under the environment of room temperature 25°C, the LED life maybe more than 50000 hr)
2. Warranty does not provide coverage for product damage resulting from the end user's failure to replace surge protection devices before they have reached their useful life.
3. Warranty does not provide coverage for product damage resulting from the natural disasters like typhoon, flood etc.
4. CoolLED is not responsible for the product which is transformed or dismantled without permission.

We reserve the right to modify, and/or to withdraw any part of data sheet herein.

