

Introduction to the Cartesian Square range,

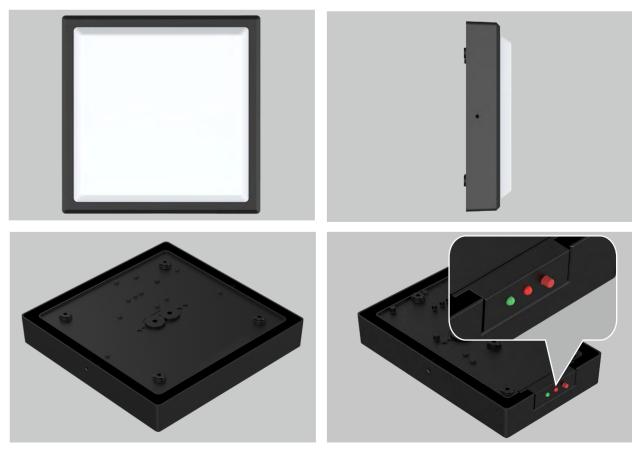
This range has three frames for options, which sit on top of the PC diffuser. The diffuser itself has a high transmittance but uniform balance across the diffuser. It also has a IK10 rating . Available in different colour temperatures from 3000k to 5700k and is also dimmable. Integral emergency with easy to view led indicators. Easy to install: labour saving with fast connector. High waterproof level with multiple functions.

Features

- Vandal-proof design
- Four types of design: Rectangle, Square, Rectangle(cross), Square(cross)
- High protection level, IK10, IP65.
- High lumen efficiency, 120lm/W.
 Interchangeable CCT(3000K+4000K+5700K)with slide switch.
- Function: Adjustable sensor, interchangeable CCT, emergency.
 Dimming way: Triac dimming, DALI dimming, 0-10V dimming.

Application Areas

Corridor, Backyard, Front yard, hotel, house Etc...















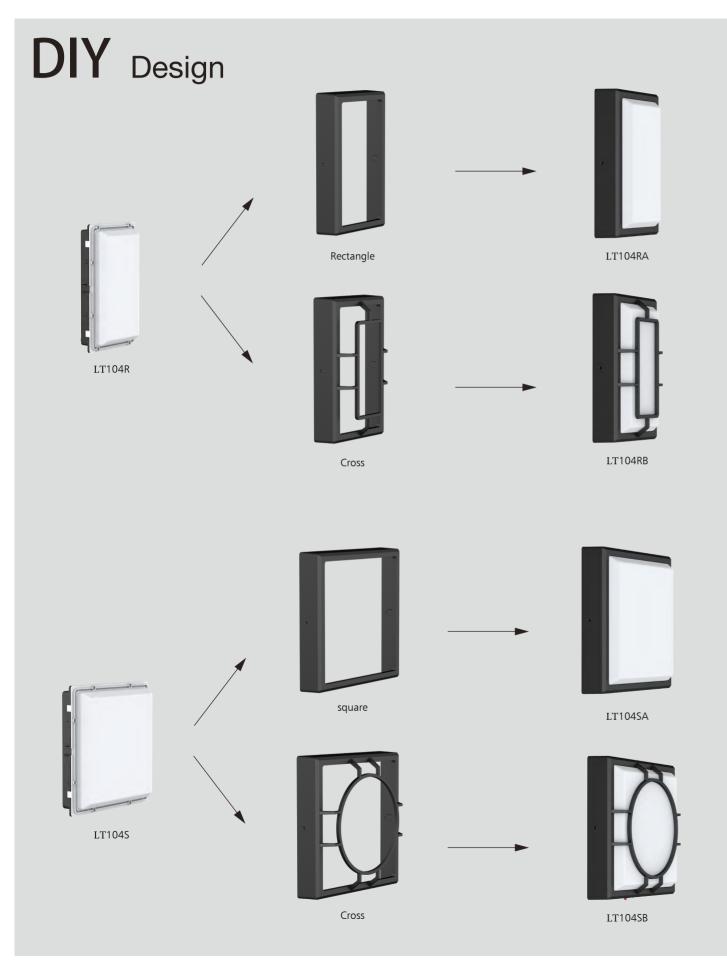












Measurement

Trim Type	Code	Dimension(mm)		Product Weight (Kg) P		Package weight (Kg)		Carton	Qty/CTN	20GP (ncs)	40HQ (pcs)	
mm type	Couc	Α	В	С	N.W/PC	G.W/PC	N.W/CTN	G.W/CTN	Size(cm)	2-3/	2001 (pcs)	4011Q (με3)
A A	AL104RA-10	250	150	63	0.9	1.06	9	11.6	50*30*37.5	10	5040	11510
C A	AL104RB-10	250	150	69	0.97	1.13	11.3	12.3	50*30*37.5	10	5040	11510
A	AL104SA-10	250	250	63	1.33	1.5	15	16.2	59*54*29.5	10	2910	7280
A A	AL104SB-10	250	250	69	1.4	1.6	16	17.2	59*54*29.5	10	2910	7280

Tech	nnical D	ata Sheet					
Code No).	LT104R-10-15W / LT104S-10-15W					
Dimension(mm)		250*150*63MM	250*150*69MM	250*250*63MM	250*250*69MM		
Watt(W)			15	SW .			
Rated In	out Voltage(V)		AC2	230V			
Input Vo	ltage(V)		AC200)-240V			
Light Sou	ırce		SMD283	35 0.2W			
SDCM			<	:6			
CCT(K)		1-0	CCT: 3000K/4000K/5000K/5700K	3-CCT: 3000K + 4000K + 570	00K		
CCT Sele Switch	ction DIP		YI	ES			
Luminou (lm) ±5%							
	Non-DIM	1390-1650	1125-1350	1500-1780	1270-1500		
1-CCT	DIM	1350-1580	1080-1280	1420-1720	1260-1480		
2 CCT	Non-DIM	1390-1650	1125-1350	1500-1780	1270-1500		
3-CCT	DIM	1350-1580	1080-1280	1420-1720	1260-1480		
CRI		≥80					
Beam Ar	ıgle (°)	120°					
LED Drive	er	Driver built-in					
Dimming	Option	Triac / DALI / 0-10V					
Sensor		YES					
Emergen	cy Kits	YES					
Electrical	Class	Class I					
Rating)	rotection (IP	IP65					
Impact R Rating)	esistance (IK	IK10					
Product Finishing(Base)		BLACK RAL 9005+WHITE RAL 9016					
Materials of Optics		Polycarbonate opal diffuser					
Materials of Housing		Die-casting Die-casting					
Lifetime				urs at 25°C			
	re test (°C)		850				
	g Temp. (°C)		-20°C				
	Temp. (°C)	-20°C ~65°C					
Installati	on	Wall mount / Surface mount					

Driver Datasheet (Non-dimmable)

	otal load wattage	-dimmable)			
		1211			
	Output Voltage range	DC60-75V			
	Rated output current	180mA±5%			
Output	Line Regulation	±5%			
	Setup, Rise Time	<0.5\$			
	Flickering Index	≤3%(NO RISK)			
	Input Voltage	AC200-240V			
	Rated Input Voltage(V)	AC230V			
	Frequency	50/60Hz			
	Input Current	0.09A			
Input	Rated Input Current	0.08A			
'	Power Factor	≥0.9			
	THD	-			
	Efficiency	≥86%			
	No load wattage	≤0.5W			
	Short circuit protection	Pass			
Protection	Over voltage protection	Pass			
	Over temperature protection	Pass			
	Withstand voltage	I/P-O/P:3.75KVac,<5mA 60S			
	Isolation Resistance	I/P-O/P: 500VDC, ≥100M Ω			
Safety &EMC	Surge	IEC61000-4-5(L-N:0.5KV,)			
	EMC Emission	EN55015, EN61000-3-2			
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547			

Driver Datasheet (Triac Dimmable)

	Total load wattage	15W	
	Output Voltage range	DC60-75V	
	Rated output current	180mA	
Output	Line Regulation	±5%	
	Setup, Rise Time	≤0.5\$	
	Flickering Index	≤7%(LOW RISK)	
	Input Voltage	AC200-240V	
	Rated Input Voltage(V)	AC230V	
	Frequency	50Hz	
	Input Current	≤0.09A	
Input	Rated Input Current	0.08A	
	Power Factor	0.9	
	THD	-	
	Efficiency	> 84%	
	No load wattage	≤1W	
	Short circuit protection	Pass	
Protection	Over voltage protection	Pass	
	Over temperature protection	Pass	
	Withstand voltage	-	
	Isolation Resistance	-	
Safety &EMC	Surge	IEC61000-4-5(L-N:0.5KV,)	
	EMC Emission	EN55015, EN61000-3-2	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547	

Driver Datasheet (0-10V Dimmable)

1	Total load wattage	15W
	Output Voltage range	30-38V
	Rated output current	400mA
Output	Line Regulation	±5%
	Setup, Rise Time	≤0.5S
	Flickering Index	<10% (NO RISK)
	Input Voltage	AC180-264V
	Rated Input Voltage(V)	AC200-240V
	Frequency	50/60Hz
	Input Current	0.1A
Input	Rated Input Current	0.09A
	Power Factor	0.9
	THD	<20%
	Efficiency	84%
	No load wattage	≤1W
	Short circuit protection	Pass
Protection	Over voltage protection	Pass
	Over temperature protection	Pass
	Withstand voltage	I/P-O/P:3.75KVac, < 5mA 60S
	Isolation Resistance	l/P-O/P: 500VDC, ≥100M Ω
Safety &EMC	Surge	IEC61000-4-5(L-N:0.5KV,)
	EMC Emission	EN55015, EN61000-3-2
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547

Driver Datasheet (DALI Dimmable)

	Total load wattage	15W	
	Output Voltage range	30-38V	
	Rated output current	400mA	
Output	Line Regulation	±5%	
	Setup, Rise Time	≤0.5S	
	Flickering Index	<10% (NO RISK)	
	Input Voltage	AC180-264V	
	Rated Input Voltage(V)	AC200-240V	
	Frequency	50/60HZ	
	Input Current	0.1A	
Input	Rated Input Current	0.09A	
	Power Factor	≥0.9	
	THD	≤20%	
	Efficiency	84%	
	No load wattage	≤1W	
	Short circuit protection	Pass	
Protection	Over voltage protection	Pass	
	Over temperature protection	Pass	
	Withstand voltage	I/P-O/P:3.75KVac, < 5mA 60S	
	Isolation Resistance	I/P-O/P: 500VDC, ≥100M Ω	
Safety &EMC	Surge	IEC61000-4-5(L-N:0.5KV,)	
	EMC Emission	EN55015, EN61000-3-2	
	EMC Immunity	EN61000-4-2,3,4,5,6,8,11; EN61547	

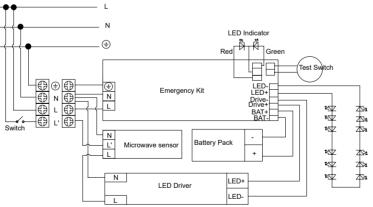
Driver Datasheet (Sensor)

	Sensor datasheet			
Operating Voltage	220-240VAC 50/60Hz			
Power consumption	1.5W±0.5W			
Microwave frequency	5.8GHz±75MHz, ISM wave band			
Transmission power	<0.5mW			
Detection angle	140°			
Detection Area	4-7M 100%/75%/50%/25% Changeable			
Hold time	5S/30S/90S/5Min/20Min/30Min Changeable			
Daylight sensor	2lux/10lux/30lux/50lux/Disable Changeable			
Stand-by DIM Level	_			
Stand-by Period	-			
Dimming Range	-			
Microwave ON/OFF function	-			
Installation Height	Recommended Installation Height: Wall mounted height 1.8m. Ceiling mounted height 3m.			
Operating temperature(°C)	-20°C ~60°C			

Emergency Kits

Power	3W
Rated Input Voltage(V)	AC230V
Frequency	50/60Hz
Input Voltage	AC200-240V
Total load wattage	3W±0.5W
Rated Input Current	≤0.03A
Battery	6.4V 1500mAh (LiFePO4)
Lifetime	Over 2000 cycles
Battery duration	≥3hrs
Charge Period	≦ 24hrs
Emergency switching time	≦ 1S

Wiring Diagram:



Daylight & Microwave Sensor:

Sensor Setting:

Detection area			
1	2		
ON	ON	100%	
-	ON	75%	
ON	-	50%	
-	-	25%	

Detection area:

Detection area can be reduced by selecting the combination on the DIP switches to fit precisely each application.

Notice 1: The test is based on a height of 3m, the radius is the ground detect distance, which can be selected through the slide switch.

Notice 2: The detective range is measured by human body whose stature is around 1.6-1.7M with medium size and traveling speed is around 1.0-1.5M per second. If the stature, bodily form and traveling speed are changed, then the detective range will be changed accordingly.

Notice 3: Test result will be highly influenced by test environment, the more open environment, the closer detect distance; the narrower environment, the longer detect distance. The detectormay do self-excitation in a narrrow

Hold time 4 5 ON ON ON 5S ON ON 30S ON 90S ON 5min ON ON - 20min - | 30min |

Hold time:

Refers to the time period the lamp remains at 100% illumination after no motion detected.

Notice 1: The hold time can be selected by the slide switch.

The hold time counting should be started after the sensor is powered on and initialized.

Daylight sensor

6	7	8	
ON	ON	ON	2Lux
ON	ON	-	10Lux
-	ON	-	30Lux
ON	-	-	50Lux
	-	_	Disable
	ON ON	ON ON ON ON ON	ON ON ON ON ON ON ON ON -

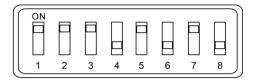
Daylight sensor:

The sensor can be set to only allow the lamp to illuminate below a defined ambient brightness threshold. When set to Disable mode, the daylight sensor will switch on the lamp when motion is detected regardless of ambient light level.

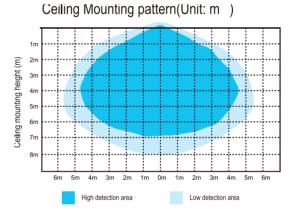
Notice 1: The light threshold can be selected through the slide switch, it may cause a large deviation in different

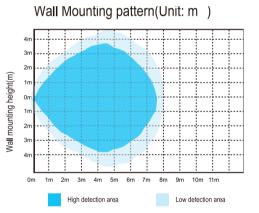
Factory settings:

Detection Area	Hold Time	Daylight Sensor
100%	90S	30Lux



Induction Range





Installation Procedure

WARNING M



- 1. Switch off before installation / maintenance.
- 2. Switch on only after complete installation and examination of the circuit.
- 3. Professional electrician for installation and maintenance only.

Turn Off power supply before starting any installation. Read instructions & check you have all the tools & accessories to complete the installation correctly.

How to install

Step 1

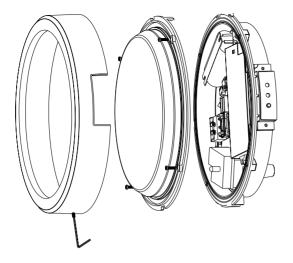
Take out the lamp and accessory





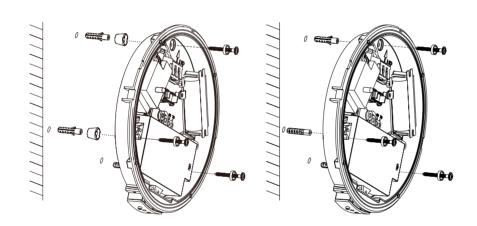
Step 2

Separate frame and lamp shade.



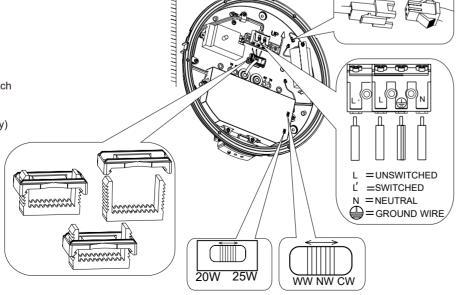
Step 3

Fix the back housing on the wall or ceiling by screws.
Drill holes in the ceiling, put plastic anchor into the hole, put the silicone pad into the screw, then aim the base wad at the lamp base hole, fix the base wad by screws.



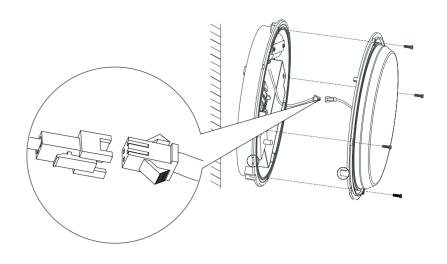
Step 4

- Connect the plugs between the battery and driver if with Emergency function.
- b. Choose the color temperature with DIP switch if it's the color changeable version.
- c. Choose the power with DIP switch if it's the wattage changeable version.(for 12 inch only)
 d. Connect the AC wires to the block.



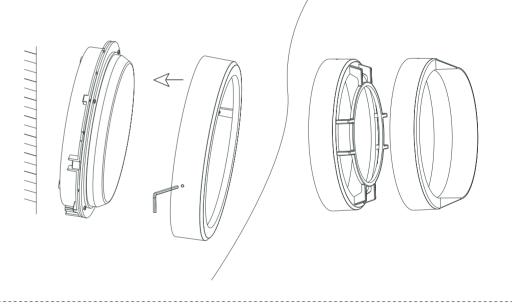
Step 5

Connect the DC plugs, put back the cover to the back plate and fix it by screws.



Step 6

Buckle the frame back and fix it by proper tools



Step 7

Installation finished, turn on the switch.





