

Product	
Catalog No.	
Fixture Type	Notes



CR402 RECESSED CLEANROOM PANEL

The CR402 Cleanroom LED Panel is a recessed luminaire designed specifically for cleanroom environments. Built with a fully welded aluminum frame, sealed construction, and IP65 protection, it ensures superior hygiene and durability. The front cover can be disassembled for easy maintenance, and the modular design allows for quick replacement of the light source and power supply. With selectable wattages, multiple diffuser options, and certifications for ISO Class 1-9 cleanrooms, CR402 provides reliable, efficient, and clean lighting performance.

APPLICATIONS

- Laboratories
- Hospitals
- Pharmaceutical factories
- Dust-free factories

FEATURES

- IP65 rating
- Fully welded construction
- Concealed front fixings
- Antibacterial coating
- LED energy saving, High efficiency control
- Tempered glass/PC diffuser
- Fraunhofer IPA cleanroom compatibility (ISO Classes 1-9)

CERTIFICATION



SPECIFICATION SUMMARY

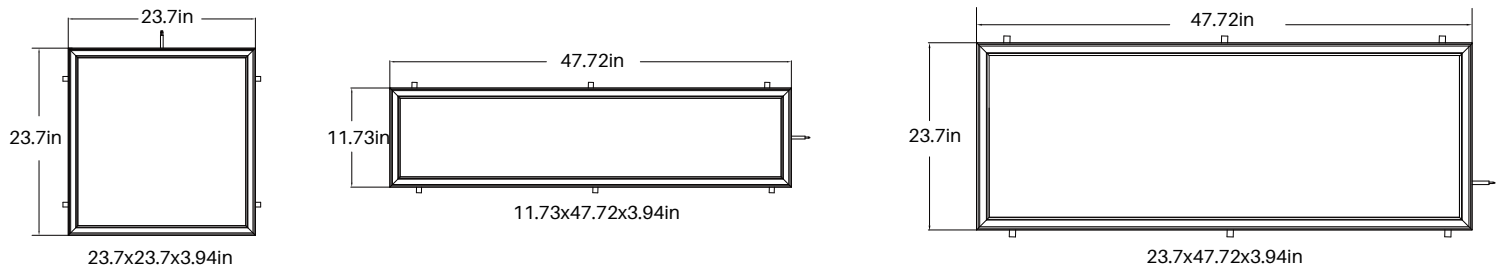
Category	Specification	Data
Performance	Wattage	2X2 : 25W / 30W / 40W(Selectable) 1X4 : 25W / 30W / 40W(Selectable) 2X4 : 30W / 40W / 50W(Selectable)
	Delivered Lumens	2,750 - 6,250lm
	Lumen Efficacy	110/125 lm/W
	Color Temperature	3500K / 4000K / 5000K (Selectable)
	CRI (Ra)	80+
	Beam Angle	110°
	UGR	<22
	SDCM	<5
	Relative Humidity	10%-90% RH
Electrical	Input Voltage	AC120-277V / 345V
	Dimming	0-10V
	Power Factor	>0.9
	THD	≤20%
	Insulation Class	Class II
	Overload Protection	103%-120% (Auto Resume)
Physical	Housing	Aluminum
	Lens Option (Diffuser)	PC / Tempered Glass / Antibacterial PC
	Back-plate Material	SPCC
	Operation Temperature	-13°F to +104°F (-25°C to +40°C)
	IP Rating	IP65
	IK Rating	IK03 (PC, Antibacterial PC) • IK08 (Tempered Glass)
	Mounting Options	Recessed, Surface Mounting
	Dimensions	2x2: 23.7" x 23.7" x 3.94" (Cutout: 22.95" x 22.95") 1x4: 11.73" x 47.72" x 3.94" (Cutout: 10.98" x 46.97") 2x4: 23.7" x 47.72" x 3.94" (Cutout: 22.95" x 46.97")

LIFESPAN AND WARRANTY

Rated Life	50,000 Hrs
Warranty	5 Years
Certification	UL, FCC, DLC, NSF (food rated)

CR402 RECESSED CLEANROOM PANEL

DIMENSIONS



PERFORMANCE DATA

2X2	PRODUCT CODE	WATTS	lm/W	DELIVERED LUMENS	CRI (Ra)	CCT
	CR402-22	25W/30W/40W(Selectable)	110/125	2,750-5,000	80	3500K / 4000K / 5000K (Selectable)

1X4	PRODUCT CODE	WATTS	lm/W	DELIVERED LUMENS	CRI (Ra)	CCT
	CR402-14	25W/30W/40W(Selectable)	110/125	2,750-5,000	80	3500K / 4000K / 5000K (Selectable)

2X4	PRODUCT CODE	WATTS	lm/W	DELIVERED LUMENS	CRI (Ra)	CCT
	CR402-24	30W/40W/50W(Selectable)	110/125	3,300-6,250	80	3500K / 4000K / 5000K (Selectable)

EMERGENCY TECHNICAL DATA

Rated input voltage	100-347V, 100-277VAC, 50/60Hz
Input current	120mA Max
Input power	8W max
Power factor	0.6 @100VAC, 0.5 @347VAC
Output wire L-out N-out (LED load input)	AC 6A Max
Output voltage range	DC25-54V, 60V max; 90-300V, 350V max
Output voltage (emergency mode)	4, 9, 16, 25W, Constant power
Battery cells type	LiFePO4 3.2V, 18650-1.6Ah, 26650-3.3Ah

Recharge current	0-500mA
Recharge time	24-48 hours
Discharge time	90 minutes
Max. casing temperature tc	176°F
Ambient operating temperature ta	32°F - 140°F
Service life	50,000 hours
RFI/EMI	FCC

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DIFFUSER OPTIONS



PC
(IK 03)

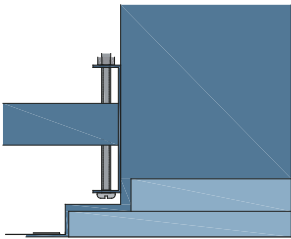


Antibacterial PC
(IK 03)



Tempered glass
(IK 08)

INSTALLATION DETAIL

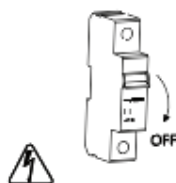


Side arm bracket clamping range
0.6" - 2.6".

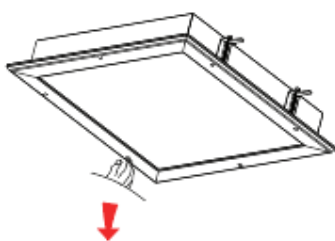
CR402 RECESSED CLEANROOM PANEL

INSTALLATION(FRONT COVER OPENING CLEANROOM PANEL)

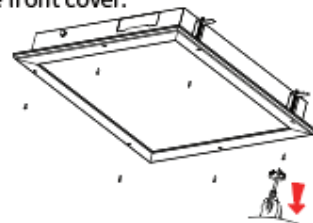
1.Cut of AC Input.



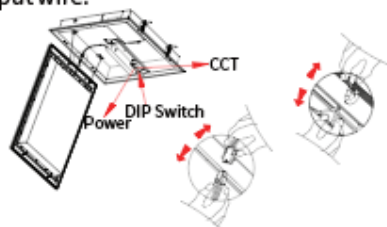
2.Remove silicone plug on sureface.



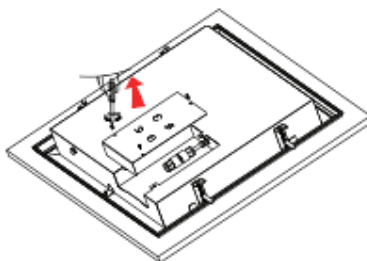
3.Take of screws under 6 silicone plug to remove front cover.



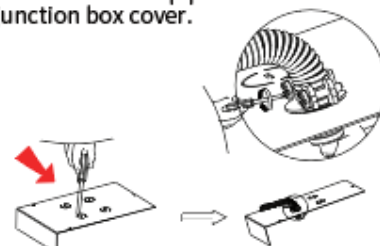
4.Take off safty rope from hook of front cover and separate the male and female connect of DC output wire.



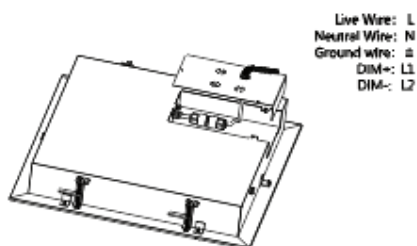
5.Remove screws and cover of junction box.



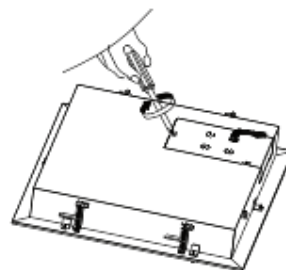
6.Open the knockout hole and pass throug and fixed Threaded pipe into knock out hole on junction box cover.



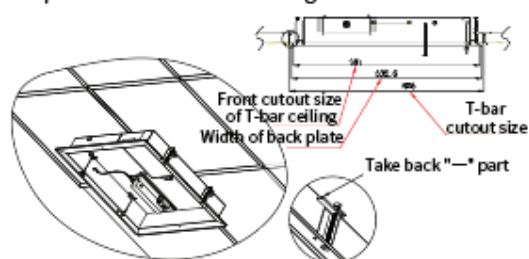
7.connecting input cable with Waterproof connector.



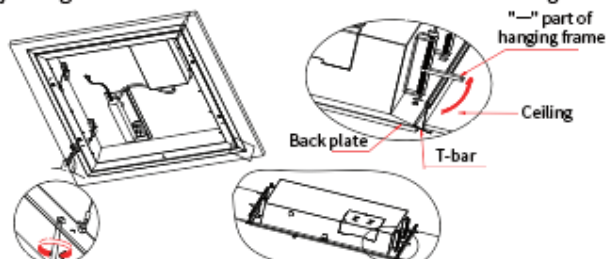
8.Fixed the junction box cover with screws.



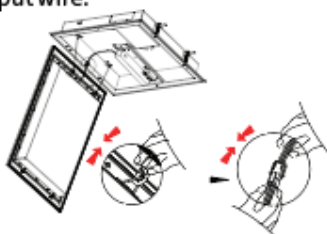
9.Install back plate into cutout of ceiling.



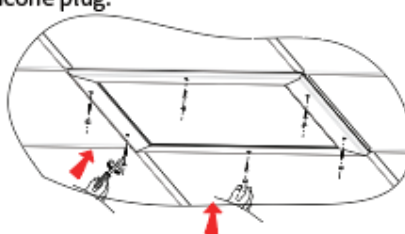
10.Adjusting 4 screws on side to fixed the fixture into ceiling.



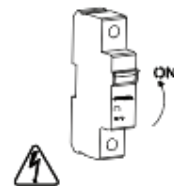
11.Hanging well safty rope on hook and connecting male and female connector of DC output wire.



12.Cover well front cover on back plate and fixed it by screws, and then move back silicone plug.

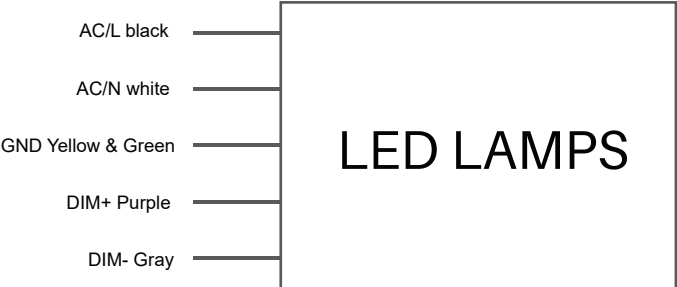
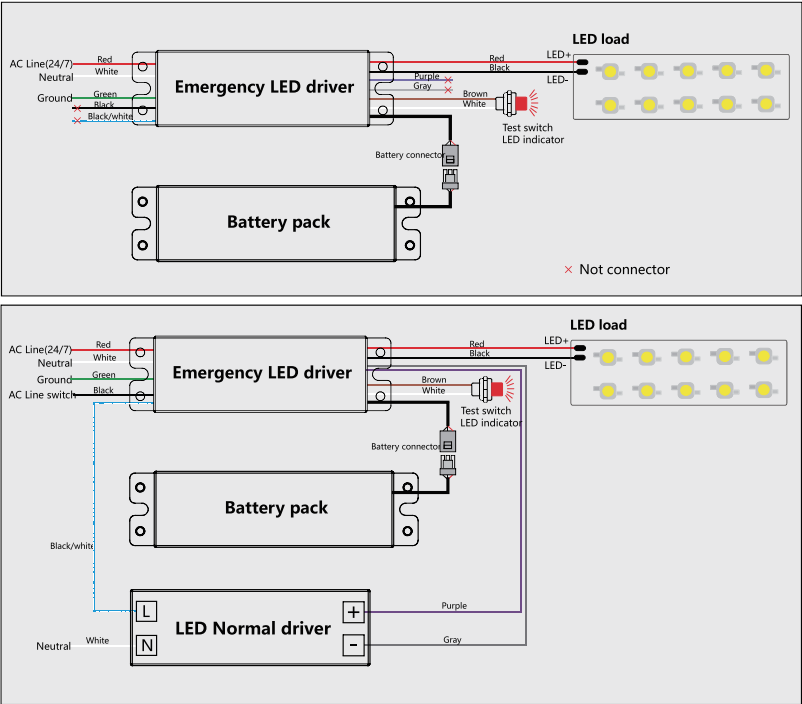


13.Power on.



CR402 RECESSED CLEANROOM PANEL

NON-MAINTAINED



ORDERING INFORMATION

Series SKU	Size	Wattage	lm/W	Dimming	Voltage	CCT
CR402	22: 2X2 14: 1X4 24: 2X4	040: 25W/30W/40W (Selectable) 050: 30W/40W/50W (Selectable)	110: 110 lm/W 125: 125lm/W	DV: 0-10V Dim *Leave blank if not specified	U: 120-277V H: 347V	CT: CCT Selectable (3500/4000/ 5000K)

Example: CR402-22040125DVU-CT
Lead times will vary depending on options selected.
Consult with your sales representative.

MISCELLANEOUS

NOTE

CONSTRUCTION:
INSTALLATION:
OPTICS:
LISTINGS:
ELECTRICAL:
GOVERNMENT PROCUREMENT: