

CLEANROOM (CR)

CLEAN ROOM FIXTURE SPECIFICATIONS



Job Information	
Project Name	
Type	
Location	
Quantity	
Date	

DESCRIPTION

Designed for controlled and high-hygiene environments, Cleanroom delivers reliable, efficient, and comfortable illumination for critical spaces. With selectable wattage, multiple size options, and tunable CCT settings, it offers flexible performance for a wide range of applications. Its high-efficacy LED system provides excellent illumination while significantly reducing energy consumption, making it an ideal solution for modern cleanroom facilities.

OVERVIEW

- Available in 1x4, 2x2, and 2x4 sizes with selectable wattage
- ETL, NSF IP65, IK10, anti-bacterial rated
- Suitable for wet locations
- Selectable CCT (3000K / 3500K / 4000K) options available
- Visual Comfort, Low glare (UGR <22) with consistent light quality
- Designed for cleanrooms and high-hygiene environments
- Tool-free opening with hand-fastening screws
- Hinged access panel for quick driver servicing

PERFORMANCE

MODEL NAME	CLEANROOM (CR)
POWER CONSUMPTION(±10%)	24W-90W (Varies Based on Size)
INPUT VOLTAGE	120-347VAC
EFFICACY	120 lm/W / 135 lm/W
DIMMING	0-10V (1%-100%)
CCT	3CCT(3000/3500/4000K)/ Option: 3CCT(3500/4000/5000K)
CRI	>80
UGR LEVEL	<22
MOUNTING OPTION	Recessed
FINISH	Aluminum/Stainless Steel
FIXTURE COLOR	White/ Option: Black
OPTICS ACCESSORY OPTION	Impact-resistant lens, PC or Glass optional
IP RATING	IP65
APPLICATIONS	High-hygiene Environments
OPERATION TEMPERATURE	-25°C to +50°C (-13F to 122F)
CERTIFICATIONS	cETL Listed
WARRANTY	5 Years
LIFE TIME OF LED @TA=25°C	50000 HRS, L90 / 100000 HRS, L70



SPECIFICATIONS

■ OPTICS

Impact-resistant lens, PC or Glass optional

■ ELECTRICAL

Voltage: 120-347VAC

■ ENVIRONMENT & CERTIFICATIONS

cETL listed for wet locations & NSF certified

■ WARRANTY

5-year standard warranty, optional 10-year

■ MOUNTING

- Non-IC recessed ceiling mounting into grid and flange application types
- Flange installation utilizes included adjustable swing-out mounting brackets
- Grid installation suitable for 1" (2.54cm) and 1.5" (3.81cm) T-bar ceilings
- Universal installation into grid or flange (drywall) ceiling applications

■ FINISH

- Aluminum 6063 frame with seamless stainless steel housing.
- Standard 24-gauge (optional 20-gauge) steel construction

■ HOUSING MATERIAL

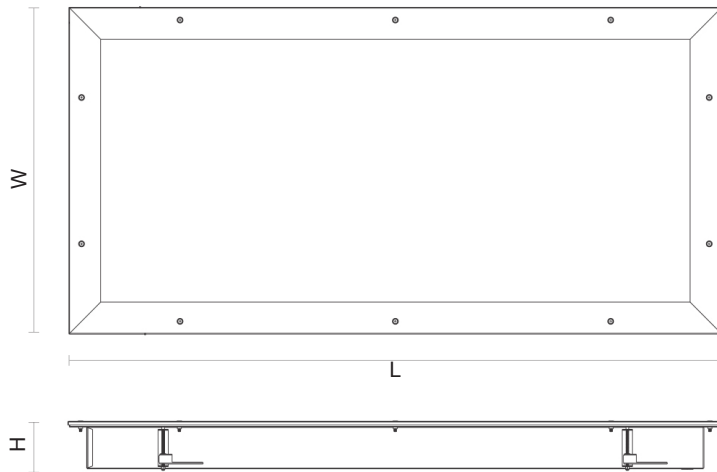
- Seamless stainless steel housing.
- Standard 24-gauge (optional 20-gauge) steel construction.

■ LED SYSTEM

CRI With 80 color rendering index (CRI), this product delivers outstanding illumination, featuring tight chromatically specifications and a precise color binning process to ensure consistency in CRI and CCT.

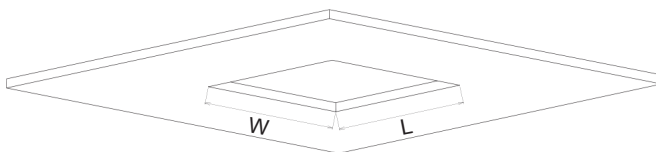
CCT Available in 3CCT (3000K, 3500K, 4000K) with excellent color consistency.

PRODUCT MODELS & DIMENSIONS



SIZE	L	W	H
1x4	47.75"	11.92"	3.54"
2x2	23.74"	23.74"	3.54"
2x4	47.75"	23.74"	3.54"

Ceiling Cutout



SIZE	L	W
1x4	46.85"	11.22"
2x2	23.03"	23.03"
2x4	46.85"	23.03"

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PRODUCT ORDERING GUIDE

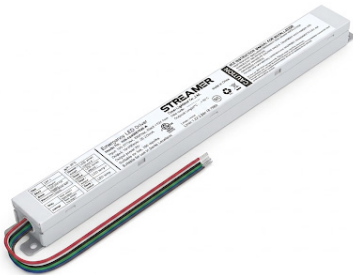
EXAMPLE: CR-22-346-30-H-WH-EB

CR	-22	-346	-30	-H	-WH	-EB
Series	Size	Wattage	CCT	Nominal Efficacy	Fixture Color	Accessories

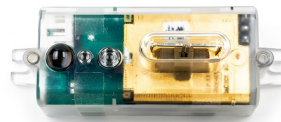
SERIES	SIZE	WATTAGE (WATT SELECT, OUTPUT LUMEN)	CCT	NOMINAL EFFICACY ^①	FIXTURE COLOR	ACCESSORIES
CR	14: 1'X4'	233: 24W/30W/36W, 3240 – 5220 lm 346: 30W/45W/60W, 4050 – 8700 lm	30: 3000/3500/4000K Selectable 50: 3500/4000/5000K Selectable	H: 135 Lm/W L: 120 Lm/W	WH: White BL: Black	EB: 8W Emergency Backup Internal MS: Microwave Sensor
CR	22: 2'X2'	233: 24W/30W/36W, 3240–5220 lm 346: 30W/45W/60W, 4050 – 8700 lm	30: 3000/3500/4000K Selectable 50: 3500/4000/5000K Selectable	H: 135 Lm/W L: 120 Lm/W	WH: White BL: Black	EB: 8W Emergency Backup Internal MS: Microwave Sensor
CR	24: 2'X4'	346: 30W/45W/60W, 4050 – 8700 lm 469: 40W/67W/90W, 6075 – 13050 lm	30: 3000/3500/4000K Selectable 50: 3500/4000/5000K Selectable	H: 135 Lm/W L: 120 Lm/W	WH: White BL: Black	EB: 8W Emergency Backup Internal MS: Microwave Sensor

① Note: Above are subject to 4000K. All efficacy is ±5% base on different CCT. For other CCT, please check the IES file to gain the accurate data

ACCESSORIES



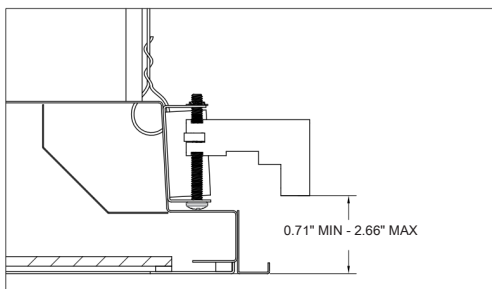
8EM: 8W Emergency Backup Internal



MS: Microwave Sensor

Note : Accessories are sold separately.

MOUNTING DATA

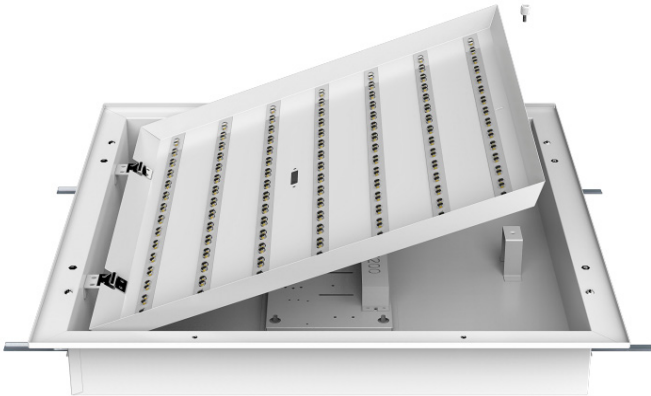


Swing-Arm Reach: 1.5"

Swing-arm adjustable range: 0.71" - 2.66"

EASY MAINTENANCE FEATURE

Designed for easy maintenance, the fixture incorporates a hinged gear tray secured by hand-fastening screws, allowing tool-free access to the optical assembly. Once released, the tray swings open to provide direct access to the driver compartment for fast inspection, servicing, or driver replacement. Eliminating the need to remove the entire fixture and reducing maintenance time on site.



- **Tool-Free Access**

Hand-operated screws allow quick opening without the use of tools, simplifying servicing while preventing damage that may result from incorrect tool use.

- **Convenient Driver Access**

A hinged internal access plate provides direct entry to the driver compartment, enabling fast inspection, maintenance, and driver replacement.

- **In-Place Maintenance**

The fixture is designed to be serviced without removing it from the ceiling, minimizing disruption to the installation area and surrounding space.

- **Lower Maintenance Time & Cost**

The service-friendly design helps reduce maintenance time, labor requirements, and overall servicing costs across various applications.

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FINISHING COLOR

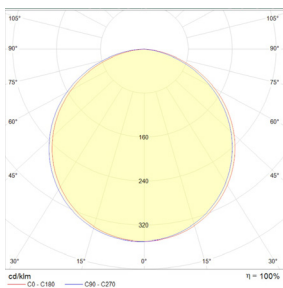


White



Black

LIGHT DISTRIBUTION



Wide Beam angle

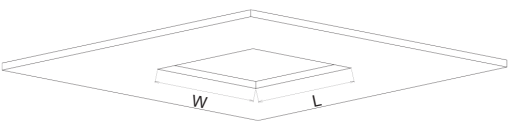
INSTALLATION INSTRUCTIONS

Please read these instructions carefully before commencing installation and retain for future reference. If in doubt, we advise that you consult a qualified electrician to install the product. These products must not be modified. If any modification is made it may invalidate the warranty and may render the product unsafe. All electrical installations must be carried out according to national electrical code & local regulations.

Important Safety Notes

1. Switch off the electricity at the mains before commencing installation (if a fuse box is used) remove the appropriate circuit fuse to avoid accidental switching on of the mains supply.
2. Connect to a 120-277V supply in accordance with relevant electrical standards.
3. Make sure all connections are tight with no loose strands.
4. Ensure fire regulations are not breached when fitting your lights.
5. If you are in any doubt regarding these instructions, consult a qualified electrician.

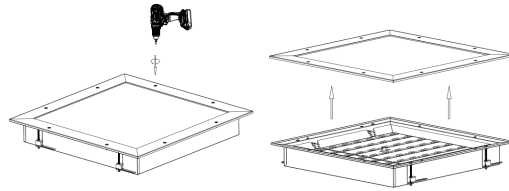
1



SIZE	L	W
1x4	46.85"	11.22"
2x2	23.03"	23.03"
2x4	46.85"	23.03"

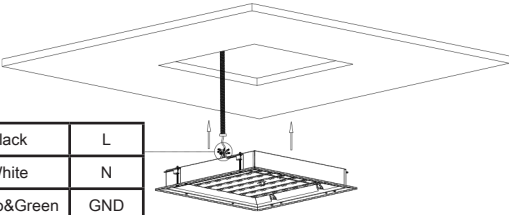
The size of the ceiling opening for the lighting fixture;

2



Remove the lampshade from the lamp, then loosen the 8 screws on the surface and take out the lampshade cover part.

3

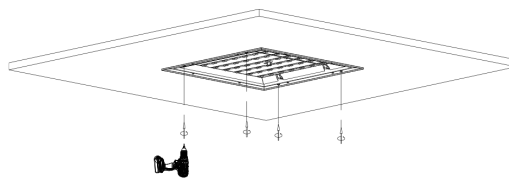


Black	L
White	N
Yellow&Green	GND
Purple	0-10V+
Pink	0-10V-

Remove the lamp, then connect it to the mains power supply, and then embed it into the ceiling.;

OFF

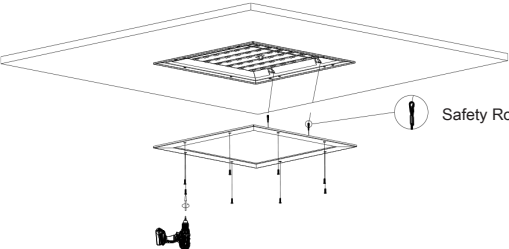
4



Adjust the four mounting screws on the lamp and secure the lamp firmly to the ceiling.

OFF

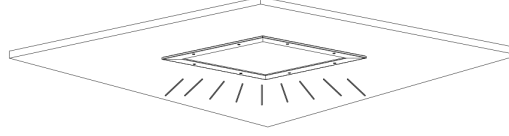
5



First, hook the safety rope on the cover onto the lamp, then close the cover and secure it with screws.

OFF

6



After confirming that the lamp is in good condition, simply turn on the switch and it can be used.

NO