



PureSpace

Cleanroom Luminaires

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- Product Applications
- Product Image
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- Product Designation
- Product Dimension and Mounting
- Product Ordering Information

Where Are Cleanroom Luminaires Required

Rooms that require very high hygiene levels:

Laboratories

Semiconductor production sites

Pharmaceutical industry

Rooms that require just protection from water and dust:

Scanner areas

Food processing

Kitchens

Introducing ... PureSpace

Bottom Opening and Top Opening Cleanroom Solutions



Top Opening



Bottom Opening

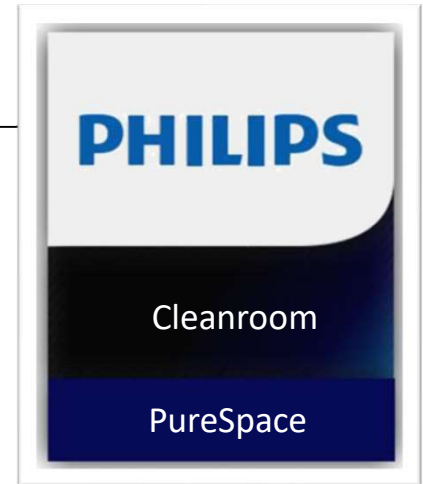
“Hygienic, efficient solution offering excellent vision at work”

PureSpace (CR652B)

Best In Class Cleanroom Lighting Solution

Applications :

- Pharma industry
- Semiconductor and electronics industry
- Food and beverage industry
- Healthcare



Unique Selling Points:

- System efficacy >105lm/W offers maximum 55% energy savings comparing to conventional systems
- System lumen 3600lm, 5600lm, and 7800lm options
- Lifetime 50,000 hours @ Ta45°C; BIS approbations – Safe and Reliable performance
- Acrylic Cover with high impact resistance of IK07
- Adjustable bracket mounting suitable for 40 to 100mm ceiling thickness (TO Cleanroom)
- IP65, effectively prevent dusts & moisture from luminaire to assure the performance for long term
- High Surge protection of 4KV ensures longevity and reliable performance throughout the lifetime

Features and Benefits

Use with peace of mind

- 4KV Surge Protection
- > 105 lm/W Efficacy
- Impact Resistance of IK07 classification
- Fully diffused light ensures comfort lighting
- IP65 certified (From the front)

Long-lasting performance

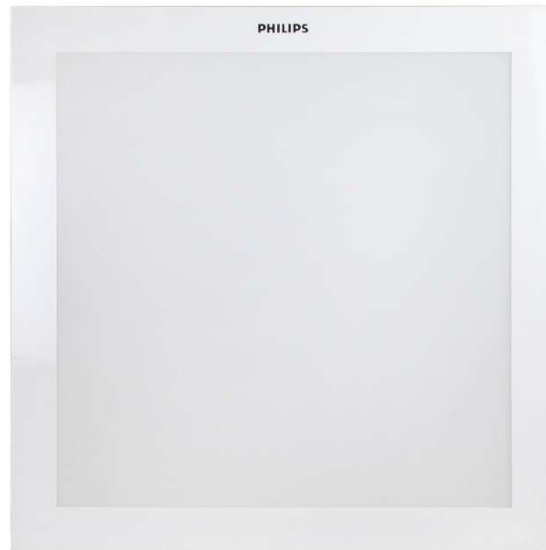
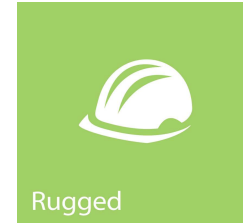
- Designed for energy savings of up to 55% compared with conventional lighting
- Life Class of 50k hours L70B50* @ 45 degree C
- Designed for operations under diverse environment from -10°C to 50°C

**Designed to sustain 70% of initial lumen output (L70) at 50,000 hours of lifetime*

High-quality materials and design

- CRCA Housing with superior finish
- Acrylic cover that ensures IK07 protection

Highlights of the Claria Plus



signify

Applications_



Hygiene Lighting



Comfort Lighting



Cleanrooms – Definition & Application Segments

Cleanrooms are designated areas which require a high degree of sterilization and protection from external environment

Cleanrooms have two essential requirements :

To prevent the ingress of any foreign particles into the subject area

To prevent the exodus of any particles from the subject area into the external environment

Cleanrooms are vital in the following industries, where the highest degree of protection is required:

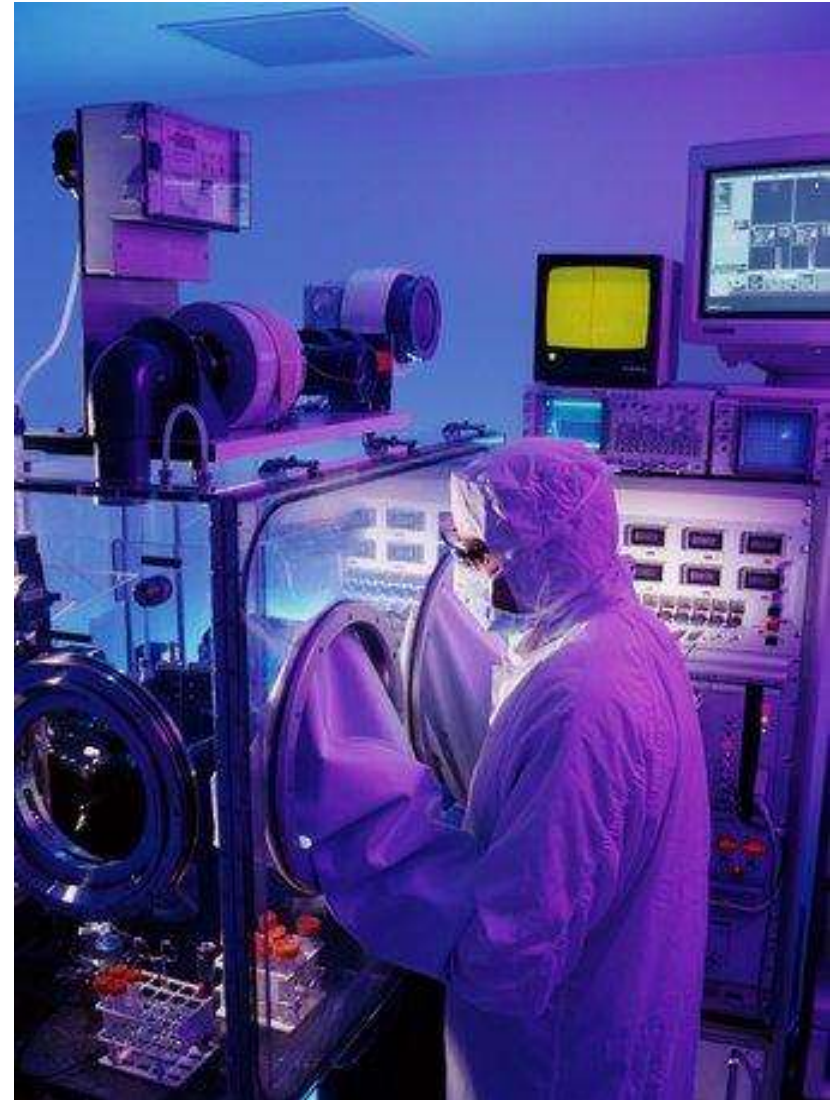
Pharma industry

Semiconductor and electronics industry

Food and beverage industry

Healthcare

Healthcare segment also requires special protection for Operation theatres, ICUs, patient wards, labs and many other areas – where the highest degree of hygiene and sterility must be maintained



Pharma & Food industry

- ❖ Pharma industry has special cleanroom areas where chemical and pathological agents are processed and analyzed.
- ❖ Biohazardous substances are also present in these cleanrooms and must be prevented from escaping into the environment
- ❖ Cleanrooms are maintained often at negative pressure to prevent outflow of air and laminar flow of air must be maintained
- ❖ Food industry also has special production areas where the food items are produced and packed to global standards



Electronics & Semiconductor Industry

- ❖ Electronics and semiconductor industry requires a very high degree of particle control and isolation from external environment
- ❖ Wafer production, IC manufacturing , electronics assembly and testing, all require cleanroom environments to ensure the highest quality
- ❖ Fine work is involved in most areas, hence effective lighting also plays a key role in productivity and quality
- ❖ Positive air pressure is maintained in cleanrooms to prevent the inflow of air into the cleanroom areas



Compliance_

✓ IS 10322 / IEC60598
(Part 5/sec 1) -1985

✓ Class I

✓ IP 65

✓ IS 15885 / IEC61347
(Part 2/sec 13) -1985

✓ CISPR15_(9Khz-30mHz)



Product Images

Top Opening



Bottom Opening



Design Features *(Top Opening)*

Separate CRCA box for Driver
ensures easy replaceability of Driver
(Easily access from top side)

Philips Driver comes with 4KV
Inbuilt Surge Protection

Acrylic Diffuser comes with
IK08 protection



Side wall bracket provides mounting
flexibility . Suitable to mount for 40-
100mm ceiling height.

Gasket on edge provides
complete sealing with wall

Note : Refer Service handbook for details

Design Features (*Bottom Opening*)

Luminaire can be opened from front face and driver can be replaced easily.

Philips Driver comes with 4KV Inbuilt Surge Protection

Acrylic Diffuser comes with IK08 protection



Mounting can be done via M8 tension rod or Conduit.

Gasket on edge provides complete sealing with wall

Note : Refer Service handbook for details

Specification Sheet: PureSpace


Model Name	CR652B (2X2)		
Light Source	SMD LED Chip	SMD LED Chip	SMD LED Chip
Wattage	32 W	53 W	72 W
Lumen	3600	5600	7800
Efficacy	110 lm/W	105 lm/W	105 lm/W
CRI	≥ 80	≥ 80	≥ 80
SDCM	<5	<5	<5
CCT	4000 & 6500K	4000 & 6500K	4000 & 6500K
Input Voltage	140-240V AC	140-240V AC	140-240V AC
Diffuser	Acrylic, DME 70	Acrylic, DME 70	Acrylic, DME 70
THD	≤ 10%	≤ 10%	≤ 10%
PF	0.95	0.95	0.95
EMI/EMC	Yes	Yes	Yes
Surge Protection	4KV Inbuilt	4KV Inbuilt	4KV Inbuilt
IP/ IK	IP65 (From front) /IK07	IP65 (From front) /IK07	IP65 (From front) /IK07
Serviceability	Class B	Class B	Class B
Working Temp.	- 10° to 45°C	- 10° to 45°C	- 10° to 45°C
Insulation Class	Class I	Class I	Class I
Serviceability	Class B	Class B	Class B
Mounting BO	M8 high tension rod	M8 high tension rod	M8 high tension rod
Mounting TO	M8 Bracket (40-100mm)	M8 Bracket (40-100mm)	M8 Bracket (40-100mm)
Life	50 K hrs.@45°C	50 K hrs.@45°C	50 K hrs.@45°C
Driver	Fixed Output/ DALI	Fixed Output/ DALI	Fixed Output /DALI

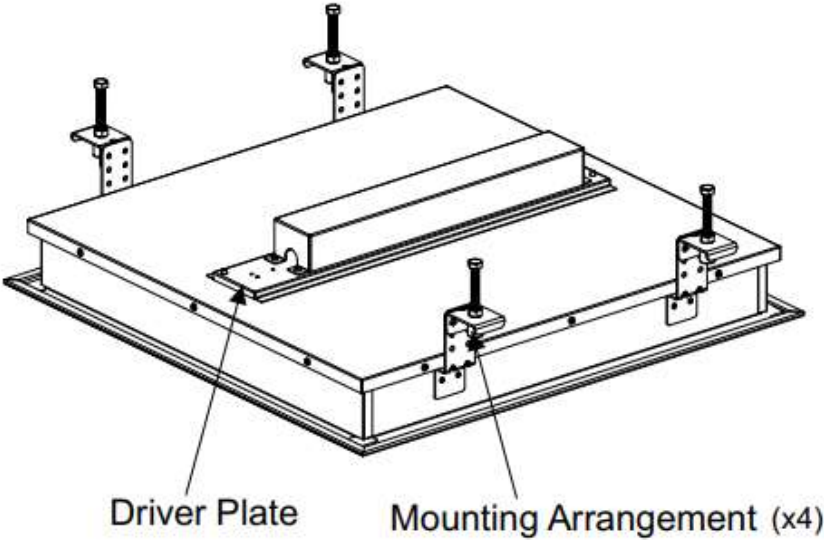
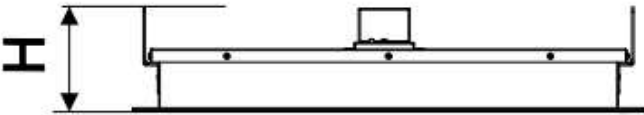
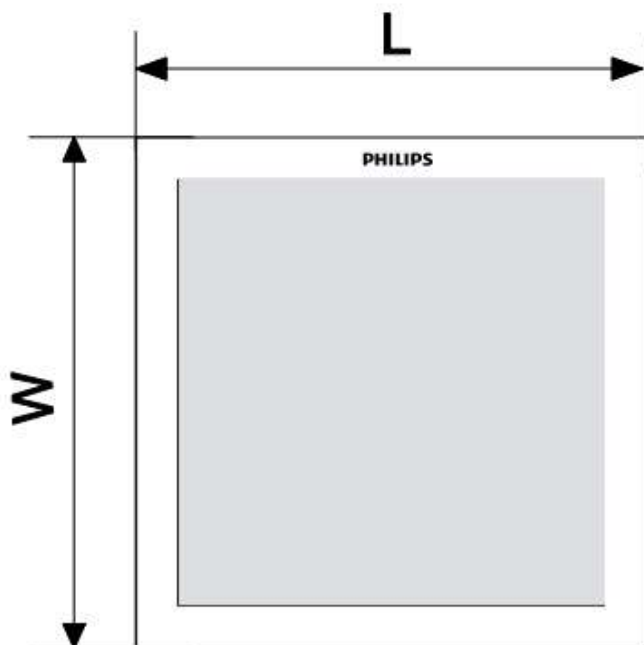
Note : All are nominal values at Nominal operating voltage 220 -240V and will vary +/-10%

In case of DALI THD<20% and Surge will be 2.5KV

All variants comes with LILLO functionality

Mounting Instructions *(Top Opening)*

Type	Dimension L x W X H (mm)	Ceiling Cut Out (mm)	 Kg
CR652B LED TO W60L60 WH	600 x 600 x 120	580 x 580	7.5

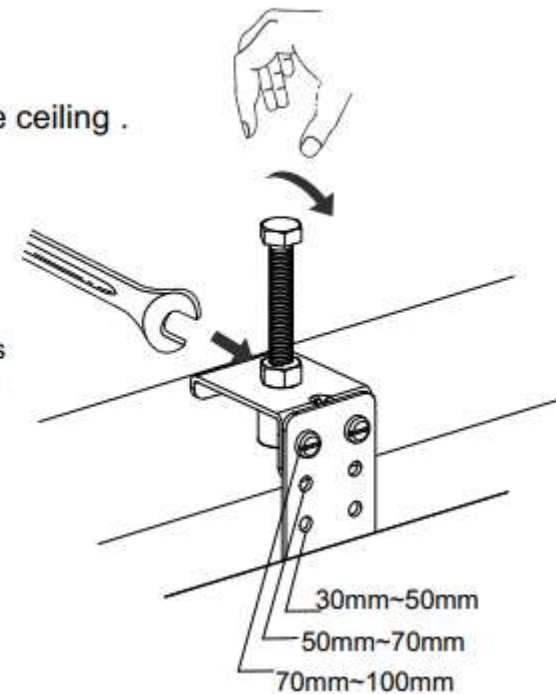
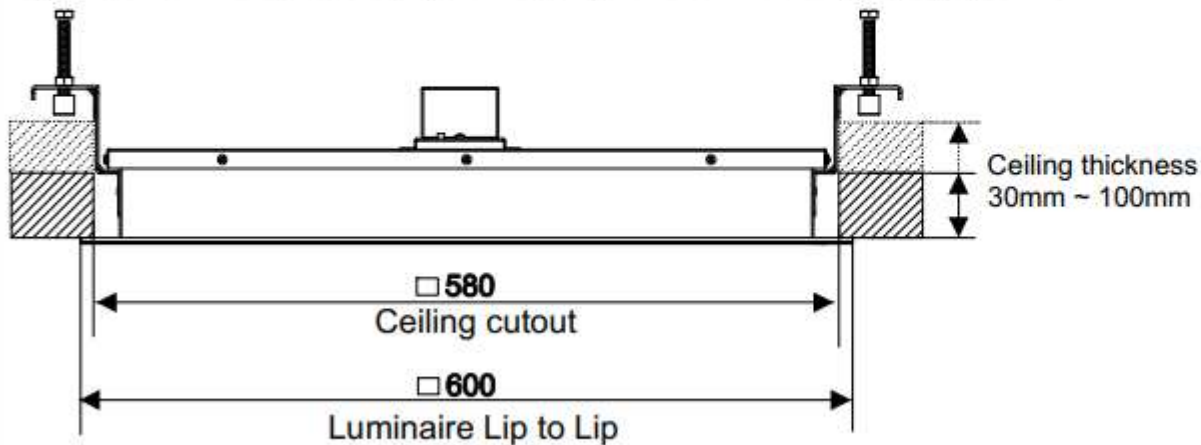


Note : Actual product may differ from pictorial view.

Mounting Instructions *(Top Opening)*

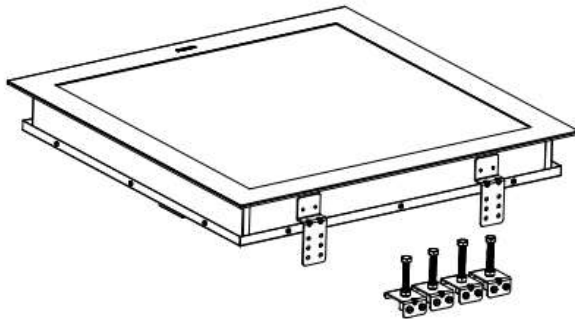
Mounting Details

- a) Take out the mounting kit & fix it in the bracket by M5 Screws (supplied).
- b) Fix the bracket in the recommended hole as per the ceiling thickness.
- c) Rotate the M8 Screw from the top till the luminaire gets properly seated in the ceiling .
- d) Once Bolt was properly tightened, tight the all M8 nut (x4) by spanner .

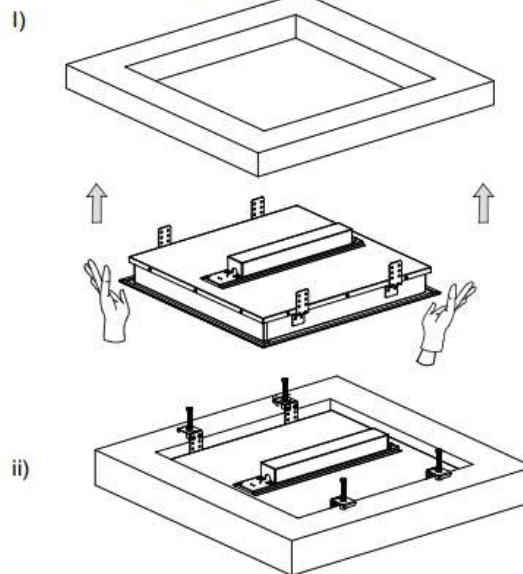


Mounting Instructions *(Top Opening)*

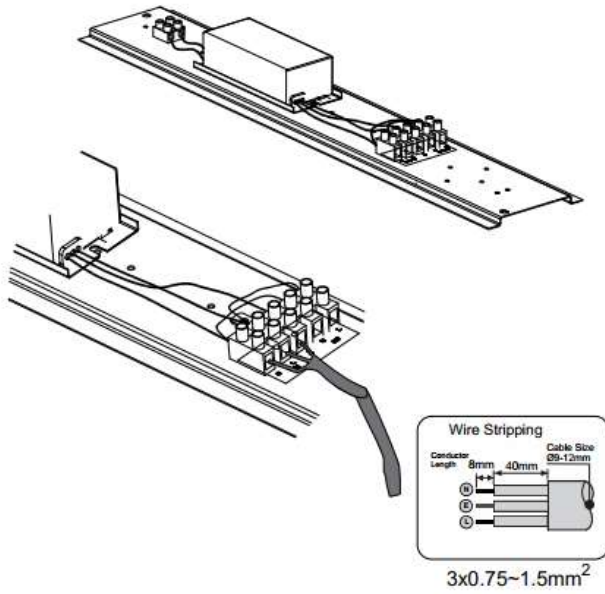
a) Take out the luminaire with its mounting accessories from packaging.



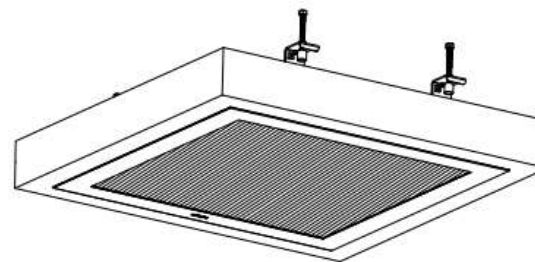
b) Insert the luminaire in cut out, flushed front with ceiling, fix the all brackets with M5 screws & then Mount it with arrangement.




c) Remove the Driver cover, connect the supply as below & fix the cover again. Can connect other Luminaires with Loop In-Loop Out Provision

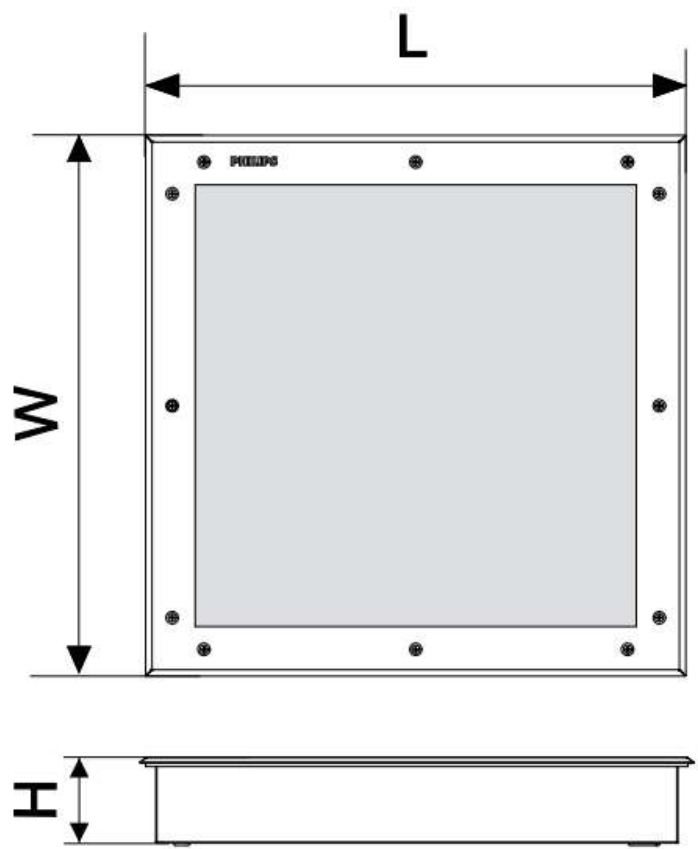


d) Apply the Silicone sealant around the periphery. Installation is ready



Mounting Instructions (*Bottom Opening*)

Type	Dimension L x W X H (mm)	Ceiling Cut Out (mm)	 Kg
CR652B LED BO W60L60 WH	610 x 610 x 75	580 x 580	6.5



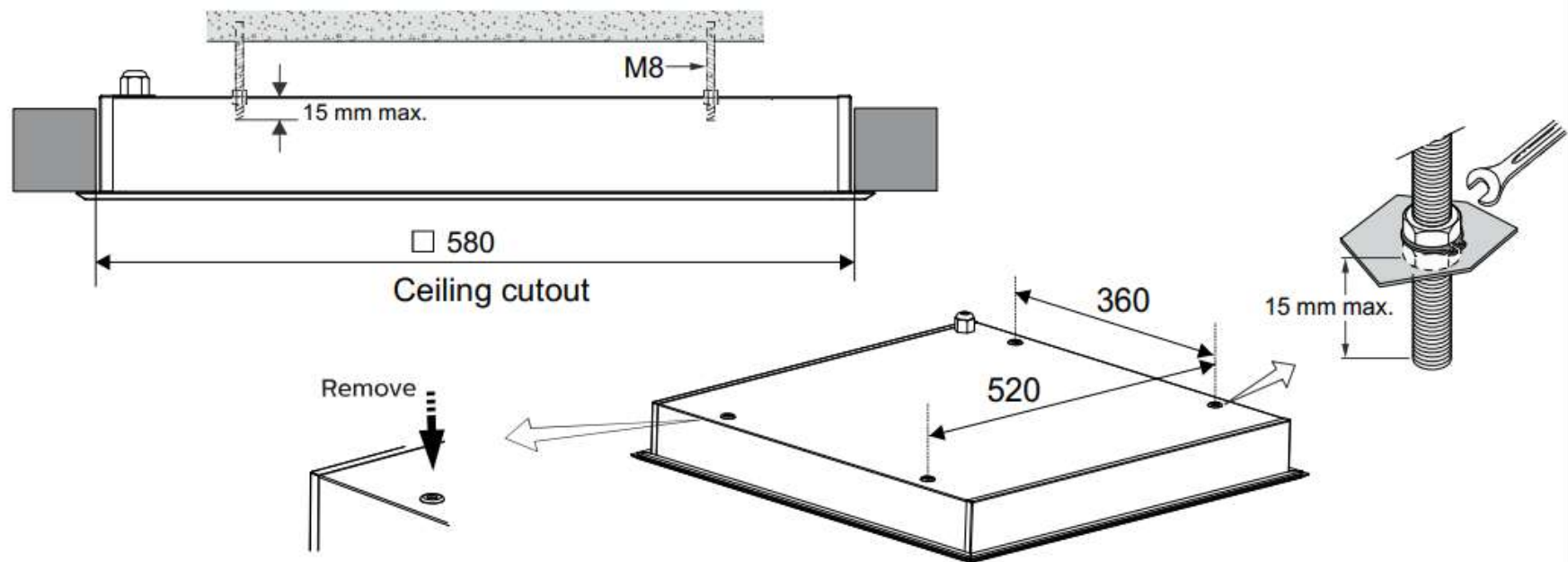
The technical drawing includes three views of the fixture: a front view showing the square face with dimensions L (length) and W (width), a side view showing the depth H (height), and an isometric view showing the fixture's profile. The front view also shows the 'PHILIPS' logo and mounting holes around the perimeter.

Note : Actual product may differ from pictorial view.

Mounting Instructions *(Bottom Opening)*

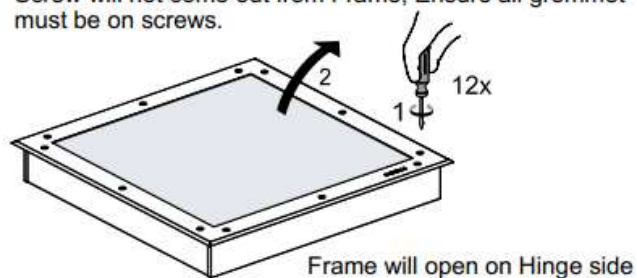
Mounting Details

- a) Open Frame by unscrewing M5 Screws (12x), remove the Grommet from holes (4x).
- b) Fix the luminaire on ceiling by M8 high tension rod.

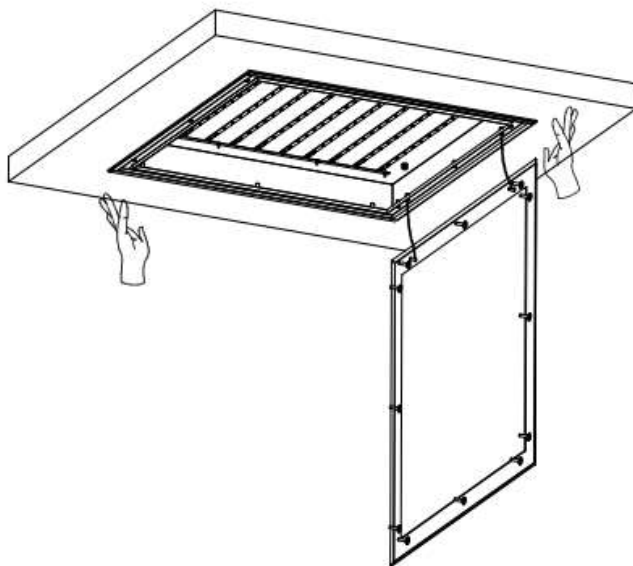


Mounting Instructions *(Bottom Opening)*

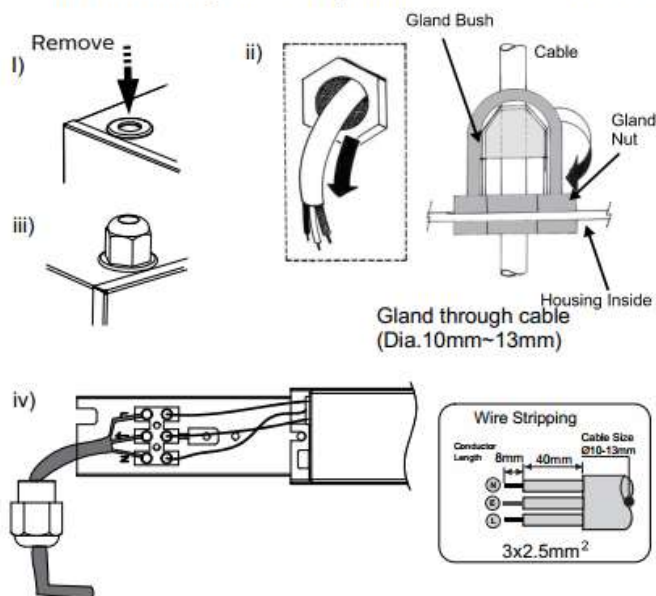
- a) Take out the luminaire from packaging with Gland. Open frame after unscrewing all screws. Screw will not come out from Frame, Ensure all grommet must be on screws.



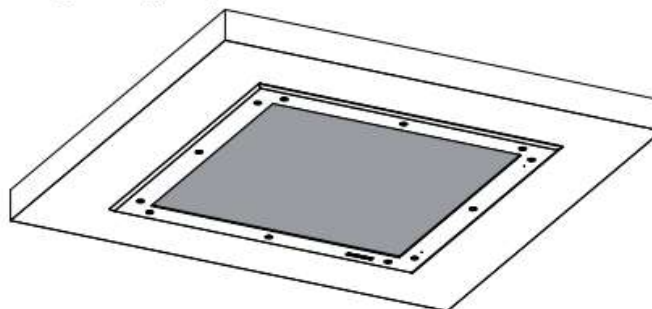
- c) Insert the Luminaire in ceiling cut out, flushed from bottom. Mount the Luminaire with M8 high tension rod.



- b) Fix Gland on housing after removing grommet, take out cable from gland & complete the electrical connection.



- d) Fix the frame, Apply the Silicone sealant around the periphery. Installation is ready. Tightening torque of Screws for frame is 0.8 Nm.



Note : Kindly ensure that Frame Wire suspension should not come out from sides & must be properly seated within only.

How to read the Cat ref

CR652B LED36S-6500 PSU CA TO W60L60 WH

1

2

3

4

5

6

7

8

1 Product Family Name
Claria Advanced

2 System Lumen Output
36S - 3600 lm
60S - 5600 lm
80S - 7800 lm

3 Color Temperature
6500 CCT
4000 CCT

4 Driver Options
PSU – Fixed Output
PSD – DALI

5 Front Cover
CA- Acrylic Diffuser

6 Construction of Luminaire
TO– Top Openable
BO– Bottom Openable

7 Size of Luminaire
W60L60 – 600X600mm
W30L120 – 300X1200mm

8 Luminaire Color
WH - White (RAL9016)

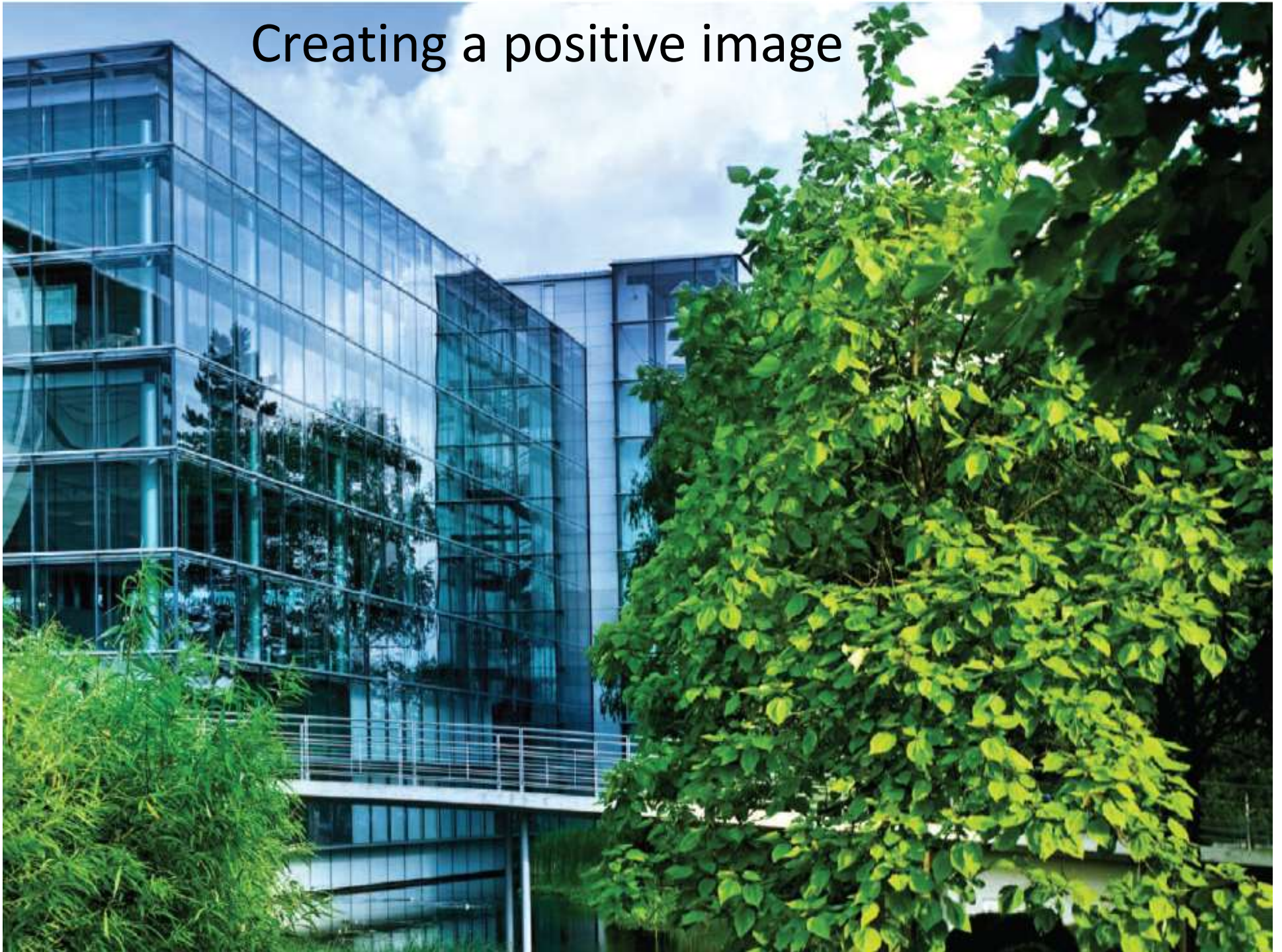
Product Ordering Information

S No.	Construction Type	Control Type	12 NC	Description	Qty Per Box
1	Top Opening	PSU	919515813705	CR652B LED36S-6500 PSU CA TO W60L60 WH	2
2			919515813706	CR652B LED36S-4000 PSU CA TO W60L60 WH	2
3			919515813707	CR652B LED60S-6500 PSU CA TO W60L60 WH	2
4			919515813708	CR652B LED60S-4000 PSU CA TO W60L60 WH	2
5			919515813709	CR652B LED80S-6500 PSU CA TO W60L60 WH	2
6			919515813710	CR652B LED80S-4000 PSU CA TO W60L60 WH	2
7		PSD	919515813711	CR652B LED36S-6500 PSD CA TO W60L60 WH	2
8			919515813712	CR652B LED36S-4000 PSD CA TO W60L60 WH	2
9			919515813713	CR652B LED60S-6500 PSD CA TO W60L60 WH	2
10			919515813714	CR652B LED60S-4000 PSD CA TO W60L60 WH	2
11			919515813715	CR652B LED80S-6500 PSD CA TO W60L60 WH	2
12			919515813716	CR652B LED80S-4000 PSD CA TO W60L60 WH	2

Product Ordering Information

S No.	Construction Type	Control Type	12 NC	Description	Qty Per Box
1	Bottom Opening	PSU	919515813755	CR652B LED36S-6500 PSU CA BO W60L60 WH	2
2			919515813756	CR652B LED36S-4000 PSU CA BO W60L60 WH	2
3			919515813757	CR652B LED60S-6500 PSU CA BO W60L60 WH	2
4			919515813758	CR652B LED60S-4000 PSU CA BO W60L60 WH	2
5			919515813759	CR652B LED80S-6500 PSU CA BO W60L60 WH	2
6			919515813760	CR652B LED80S-4000 PSU CA BO W60L60 WH	2
7		PSD	919515813761	CR652B LED36S-6500 PSD CA BO W60L60 WH	2
8			919515813762	CR652B LED36S-4000 PSD CA BO W60L60 WH	2
9			919515813763	CR652B LED60S-6500 PSD CA BO W60L60 WH	2
10			919515813764	CR652B LED60S-4000 PSD CA BO W60L60 WH	2
11			919515813765	CR652B LED80S-6500 PSD CA BO W60L60 WH	2
12			919515813766	CR652B LED80S-4000 PSD CA BO W60L60 WH	2

Creating a positive image



How can we
help you?



Support from start to finish



Advisory services

Clear insight into your current lighting system, how it can be improved, and the benefits you would gain



Lifecycle services

Variety of project after-care contracts that cover all aspects necessary to guarantee long-lasting, hassle-free performance



Project services

Design, control and coordination activities necessary to take a lighting solution from the drawing board into a reality



Lighting capital

This enables you to acquire a state-of-the-art, business enhancing solution immediately – with little to no upfront capital investment required

Why choose Philips?

A lighting service that fits your business needs

We listen and understand your needs:



Global presence
and local experience
delivering multi-tiered
support



One-stop shop:
solutions and services
across the lighting
value chain



World-class innovation
capabilities and deep
application and system
expertise



Proven record of
quality and reliability –
no unpleasant
surprises

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