



CLEAN ROOM LED LIGHTING SOLUTIONS

High protection degree
Energy efficiency
Longevity
Comfort

BUCK GmbH

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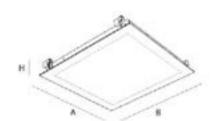
CLEAN ROOM is a family of light fixtures used in clean spaces, certified by Fraunhofer institute for all ISO classes, up to ISO 1. High ingress protection IP65, as above so below, is an essential feature of this luminaire.

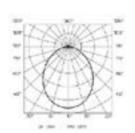
Hand- operated TIG welding, special multi-layer coating and lasting LED sources provide durability and little to no maintenance. Due to a vast choice of different optics, these luminaires are easily incorporated in every type of clean room spaces, whether it is microchip or pharmaceutical industry, laboratories or operation rooms.

CLEAN ROOM MG









Dimensions A/B/H, a/b/h
Finish
Weight
Luminaire luminous flux (t_a=25°)
Total power
Luminaire efficiency
Light colour temperature
CRI
UGR
LED service life
Power supply
Control gear

623x623x61mm 605x605x110mm
antibacterial white epoxy polyester powder

8.5kg
5500lm
42W
130lm/W
4000K
>80
<22
60.000h(L90B10) SDCM 3
220-240V, 50-60Hz
ECG, DALI



CLEAN ROOM CLA / CLD

Clean Room CLA / CLD are highly efficient luminaires for direct illumination, intended for spaces where a high protection degree and an excellent lighting performance are required in accordance with DIN EN ISO 14644-1.

Smooth luminaire surface, resistant to cleaning agents, allows easy maintenance and meets high hygiene standards for medical institutions and clean production facilities.



CLEAN ROOM CLA / CLD

OPTICS Luminaires are supplied with the following optics:

CLA multilayer optics, with highly transparent tempered glass protector, diffuser of microprismatic structure and opal foil.

CLD opal diffuser providing diffused light. Latest generation LED modules and drivers.

Extended work- life LED sources, with not over 10% light intensity loss (L90), reduce maintenance costs to minimum. The choice of the appropriate control gear enables lighting management.

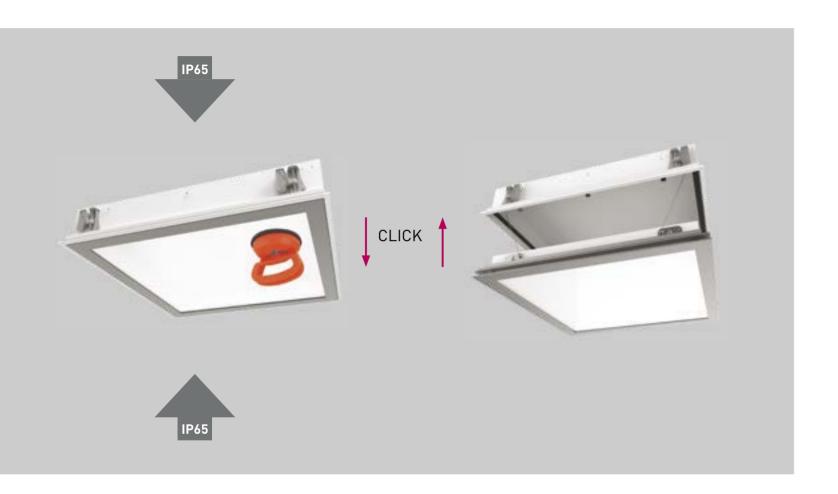
HOUSING is constructed of bended 0.8mm thick steel sheets. The parts are assembled by resistance spot welding and TIG welding. Final coating procedure includes degreasing, phosphatisation, washing and zinc primer coating, after which epoxy polyester powder RAL 9003 (white) is applied and then polymerized at 180°C. The powder is used for surface protection of luminaires for medical use, since it is resistant to aggressive cleaning agents and has an antibacterial character.

Luminaire housing consists of inner and outer casing for easy installation and serviceability.

DESIGN OVERVIEW



FEATURES STANDARD EQUIPEMENT









Connection coil for inner and outer housing for easy serviceability.



Mounting kit for monolith and panel suspended ceilings.

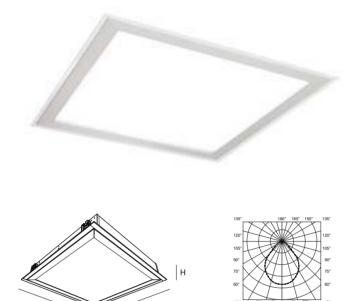
On request

- Standard mounting brackets for panel thickness >57 mm
- Brackets for larger thicknesses are available on request
- Mounting brackets for concealed grid clip- in, suspended ceilings
- Other light colour temperatures and CRI>90
- EM module 1h or 3h autonomy
- CBS (Central Battery System) integration

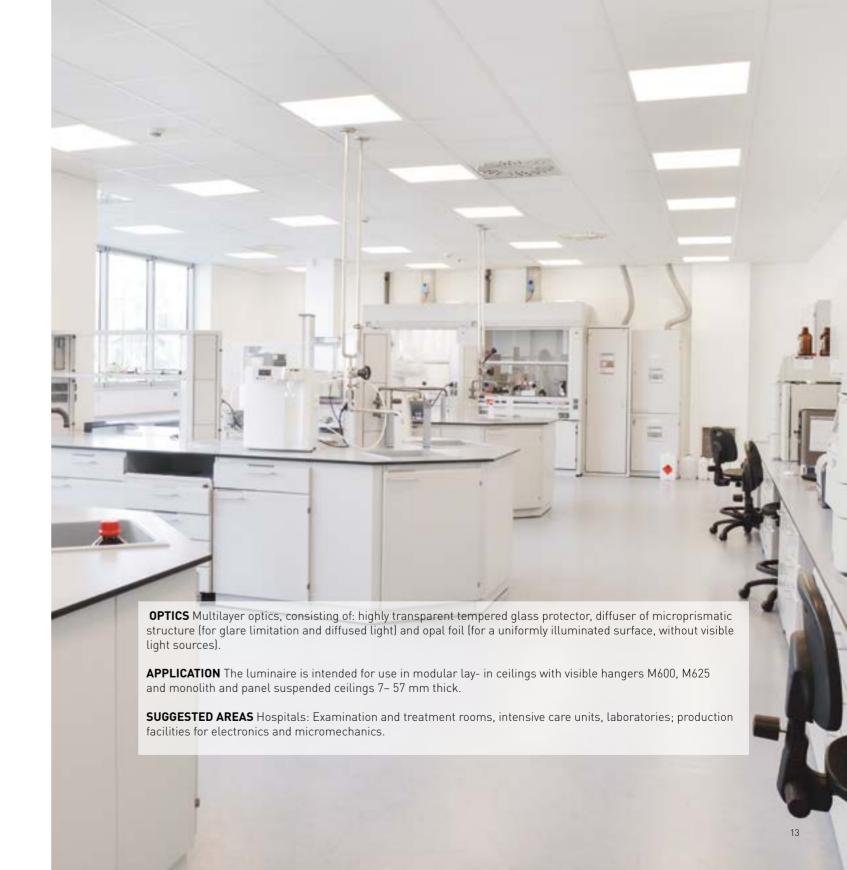




CLEAN ROOM CLA



Dimensions A/B/H 595x595x108/620x620x108mm/1195x295x108mm Cut -out dimensions a/b/h 580x580x160/610x610x160mm/1180x280x160mm Ingress protection rating IP65/IP65 Impact resistance Finish antibacterial white epoxy polyester powder Weight . 12/14kg Luminaire luminous flux (t = 25°) 5400/5550lm Total power 45W Luminaire efficiency 120/123 lm/W Light colour temperature 4000K >80, >90 CRI UGR <19 LED service life 60.000h(L90B10) SDCM 3 Power supply 220-240V, 50-60Hz Control gear ECG, DALI



^{*} A novelty in this group is the Clean Room CLA luminaire variant with a shallower housing, dimensions A/B/H= 623/623/75mm, a/b/h= 580/580/130mm.

CLEAN ROOM CLA OT

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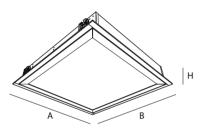


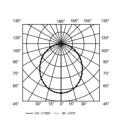
Dimensions A/B/H 1195x295x108mm Cut -out dimensions a/b/h 1180x280x160mm Ingress protection rating IP65 Impact resistance IK09 Finish antibacterial white epoxy polyester powder Weight Luminaire luminous flux (t = 25°) 7900lm Total power 73W Luminaire efficiency 108lm/W Light colour temperature 4000K CRI >90 UGR <19 60.000h(L80B10) SDCM 3 220-240V, 50-60Hz LED service life Power supply Control gear ECG, DALI



CLEAN ROOM CLD







Dimensions A/B/H
Cut -out dimensions a/b/h
Ingress protection rating
Impact resistance
Finish
Weight
Luminaire luminous flux
(t_a=25°)
Total power
Luminaire efficiency
Light colour temperature
CRI
UGR
LED service life

Power supply

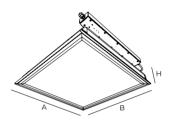
Control gear

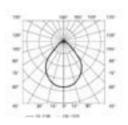
595x595x108 / 620x620x108mm / 1195x295x108mm
580x580x160 / 610x610x160mm / 1180x280x160mm
IP65
IK06
antibacterial white epoxy polyester powder
12/14kg
4672/4789lm
34/36W
137/133 lm/W
4000K
>80, >90
<22
60.000h(L90B10) SDCM 3
220-240V, 50-60Hz
ECG, DALI



CLEAN ROOM SLIM UP







Dimensions A/B/H
Cut -out dimensions a/b/h
Ingress protection rating
Impact resistance
Finish
Weight
Luminaire luminous flux
(t = 25°)
Total power
Luminaire efficiency
Light colour temperature
CRI
UGR
LED service life

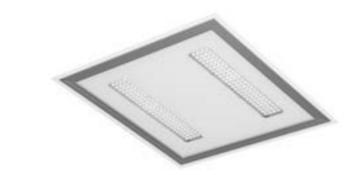
Power supply

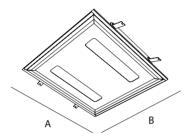
Control gear

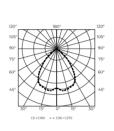
595x595x60mm 580x580x60mm IP50/IP65 IK08 antibacterial white epoxy polyester powder 12kg 4600/10000lm 37/86W 124/116 lm/W 4000K >80, >90 <19, <22 60.000h(L90B10) SDCM 3 220-240V, 50-60Hz ECG, DALI



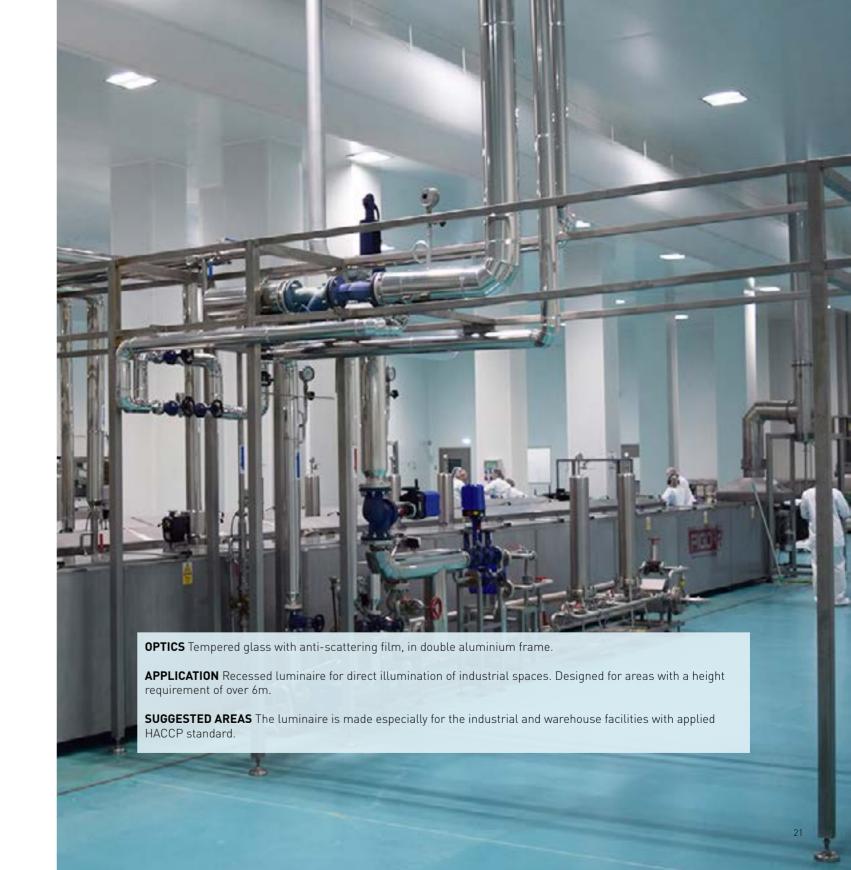
CLEAN ROOM HB





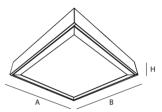


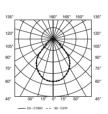
Dimensions A/B/H 500x500x60mm Cut -out dimensions a/b/h 485x485x100mm Ingress protection ratingl mpact IP65 resistance IK07 antibacterial white epoxy polyester powder Finish Weight Luminaire luminous flux (t = 25°) 10838/15873lm 74/115W Total power Luminaire efficiency 147/138lm/W Light colour temperature 4000K >80 CRI <22 UGR 60.000h(L80B10) SDCM 3 LED service life 220-240V, 50-60Hz Power supply Control gear ECG, DALI



CLEAN ROOM CLA/C





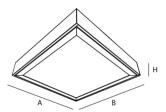


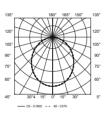
Dimensions A/B/H 600x600x109mm / 1200x300x109mm Ingress protection rating IK09 Impact resistance Finish antibacterial white epoxy polyester powder Weight 12/14kg 5400/5550lm Luminaire luminous flux (t_s=25°) 45W Total power Luminaire efficiency 120/123 lm/W Light colour temperature 4000K CRI >80 <19 UGR LED service life 60.000h(L90B10) SDCM 3 220-240V, 50-60Hz Power supply Control gear ECG, DALI



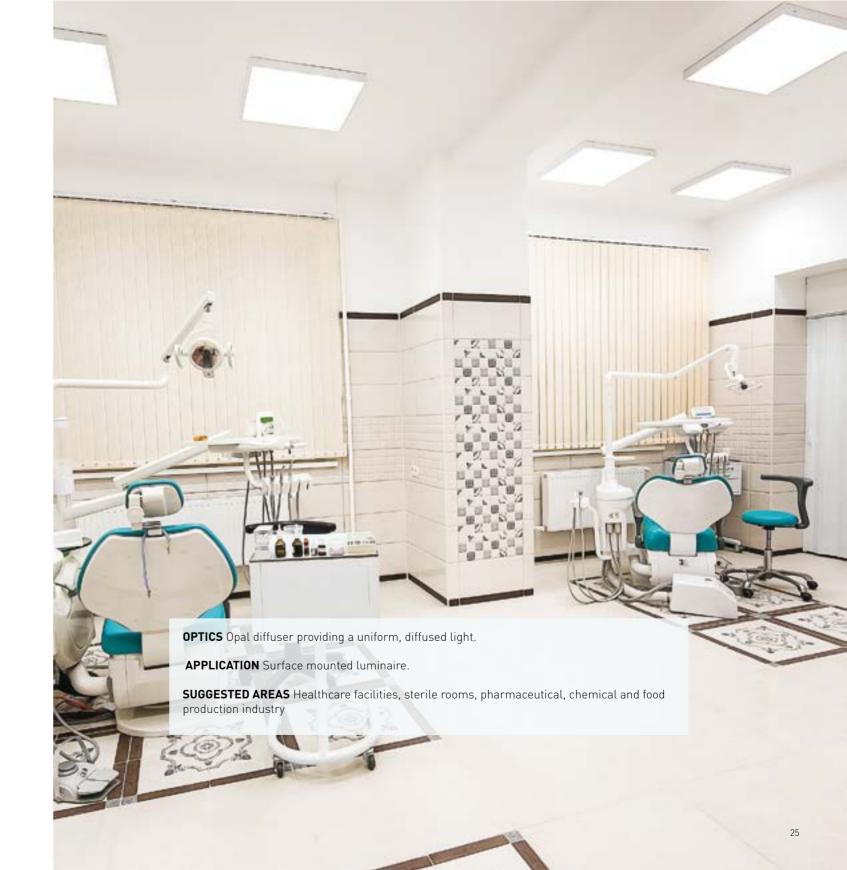
CLEAN ROOM CLD /C







Dimensions A/B/H 600x600x109mm / 1200x300x109mm IP65 IK06 Ingress protection rating Impact resistance . Finish antibacterial white epoxy polyester powder Weight . 12/14kg Luminaire luminous flux (t₃=25°) 4672/4789lm 34W Total power Luminaire efficiency 137/141lm/W 4000K Light colour temperature CRI >80 <22 UGR LED service life 60.000h(L90B10) SDCM 3 220-240V, 50-60Hz Power supply Control gear ECG, DALI



CLEAN ROOM CDP EX



Dimensions A/B/H 1195x295x104mm Cut -out dimensions a/b/h 1180x280mm Ingress protection rating IP64 Impact resistance IK08 Finish antibacterial white epoxy polyester powder Weight Luminaire luminous flux (t_s=25°) 5062lm Total power 44W Luminaire efficiency 115lm/W Light colour temperature 4000K CRI >80 UGR <20 LED service life 60.000h(L80B10) SDCM 3 220-240V, 50-60Hz Power supply ECG, DALI Control gear



OPTICS The highly transparent diffuser with a microprismatic structure limits glare and provides uniform, diffused light. Opal foil brings a uniformly illuminated surface without visible light sources. The tempered glass protector gives a smooth surface for easy maintenance.

APPLICATION The luminaire is intended for use in monolith and panel ceilings.

SUGGESTED AREAS Spaces with potentially explosive ambience, Pharmaceutical & Chemical industry

CLEAN ROOM CLA /C Ex

Explosio np roof luminai re



Dimensions A/B/H 600x600x109mm / 1200x300x109mm Ingress protection rating IP54 IK09 Impact resistance Finish antibacterial white epoxy polyester powder . 12/16kg Weight Luminaire luminous flux (t = 25°) 5400/5550lm 44/50W Total power 123/111lm/W Luminaire efficiency 4000K Light colour temperature CRI >80 UGR <19 LED service life 60.000h(L90B10) SDCM 3 220-240V, 50-60Hz Power supply Control gear ECG, DALI Ex protection degree II 3DEx tc IIIB T65°C Dc



OPTICS Multilayer optics, consisting of: highly transparent tempered glass protector, diffuser of microprismatic structure (for glare limitation and diffused light) and opal foil (for a uniformly illuminated surface, without visible light sources).

APPLICATION Surface mounted luminaire.

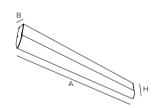
SUGGESTED AREAS The luminaire is applicable in spaces with potentially explosive ambience, such as the pharmaceutical industry, and places where powder chemicals and dangerous materials are handled.

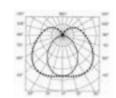
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^{*}Explosion - proof equipement according to ATEX 2014/34/EU directives Compliance with: EN IEC 60079-0:2018, EN 60079-31:2014

STREAM TEARDROP





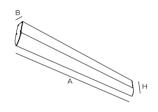


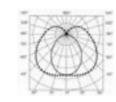
Dimensions A/B/H Ingress protection rating Weight Luminaire luminous flux (t₃=25°) Total power Luminaire efficiency Light colour temperature CRI LED service life Power supply Control gear

1140x46x140mm anodization in natural aluminium colour 4030/7330lm 25/51W 161/144 lm/W 4000K >80 72.000h(L80B10) SDCM 3 220-240V, 50-60Hz ECG, DALI

STREAM TEARDROP LSL 620nm







Dimensions A/B/H 1140x46x140mm Ingress protection rating Finish anodization in natural aluminium colour Weight 2.70kg Luminaire luminous flux 2600lm (t_.=25°) 30W Total power 87lm/W Luminaire efficiency 620nm Light colour temperature 50.000h(L80B10) LED service life 220-240V, 50-60Hz Power supply ECG, DALI Control gear





OPTICS Multilayer optics, consisting of: highly transparent tempered glass protector, diffuser of microprismatic structure (for glare limitation and diffused light) and opal foil (for a uniformly illuminated surface, without visible

APPLICATION Micro-electronics industry, automotive battery production

SUGGESTED AREAS Clean & dry areas with laminar airflow. Micro-electronics industry, automotive battery production