

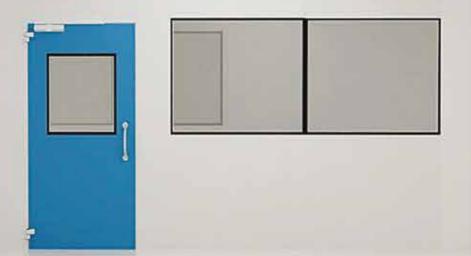
BUCK GmbH

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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 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 20% light intensity loss (L80), reduce maintenance costs to minimum.

The choice of the appropriate control gear enables lighting management.

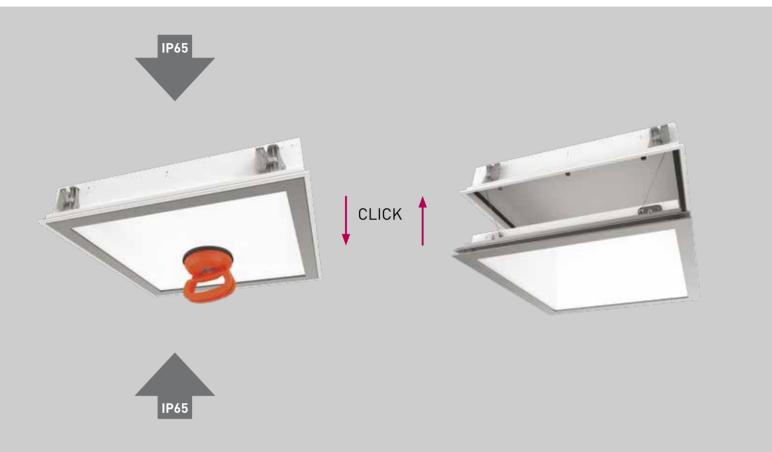
HOUSING is constructed of bended 0.8mm thick steel sheets. The parts are assembled by resistance spot welding and TIG welding. Final coating procedure includes degreasing, phosphatisation, washing and zinc primer coating, after which epoxy polyester powder RAL 9003 (white) is applied and then polymerized 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 bactericide 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.



- Mounting brackets for panel thickness >57 mm
- Mounting brackets for concealed grid clip- in, suspended ceilings
- Other light colour temperatures and CRI>80
- EM module 1h or 3h autonomy
- CBS (Central Battery System) integration

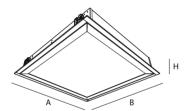


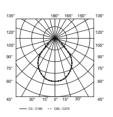


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CLEAN ROOM CLA



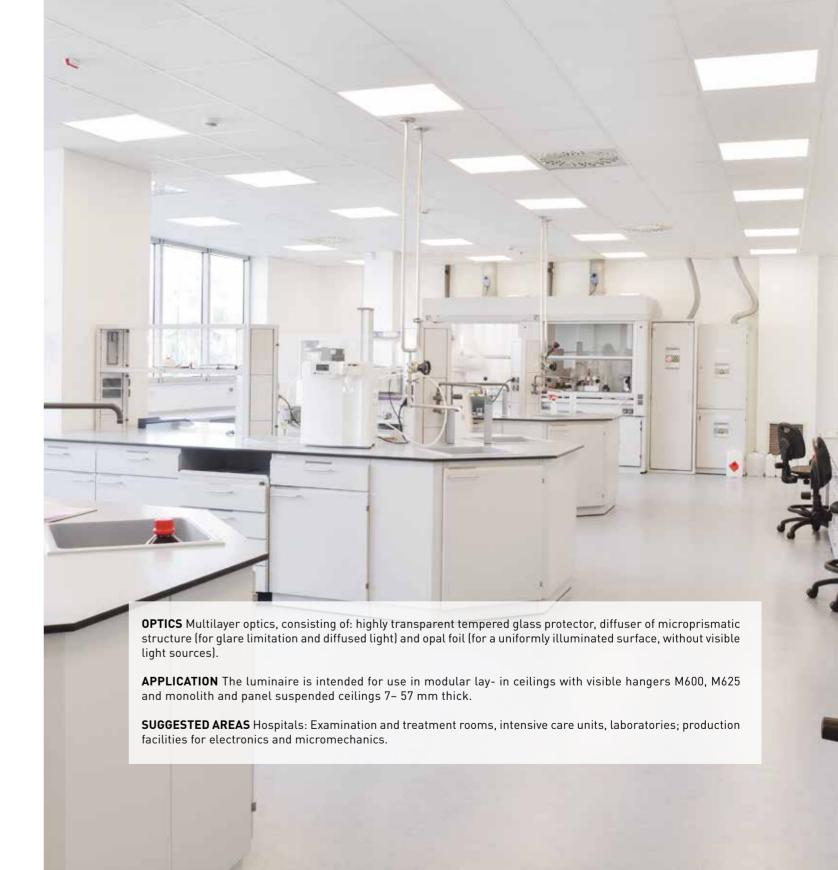




Dimensions A/B/H
Cut -out dimensions a/b/h
Ingress protection rating
Impact resistance
Finish
Weight
Luminaire luminous flux (t_a=25°)
Total power
Luminaire efficiency
Light colour temperature
CRI
UGR
LED service life

Power supply Control gear

595x595x108/620x620x108mm/1195x295x108mm
580x580x160/610x610x160mm/1180x280x160mm
IP65
IK10
antibacterial white epoxy polyester powder
12/14kg
5612/5616lm
47/41W
119/137 lm/W
4000K
>80
<19
60.000h(L80B10) SDCM 3
220-240V, 50-60Hz
ECG, DALI

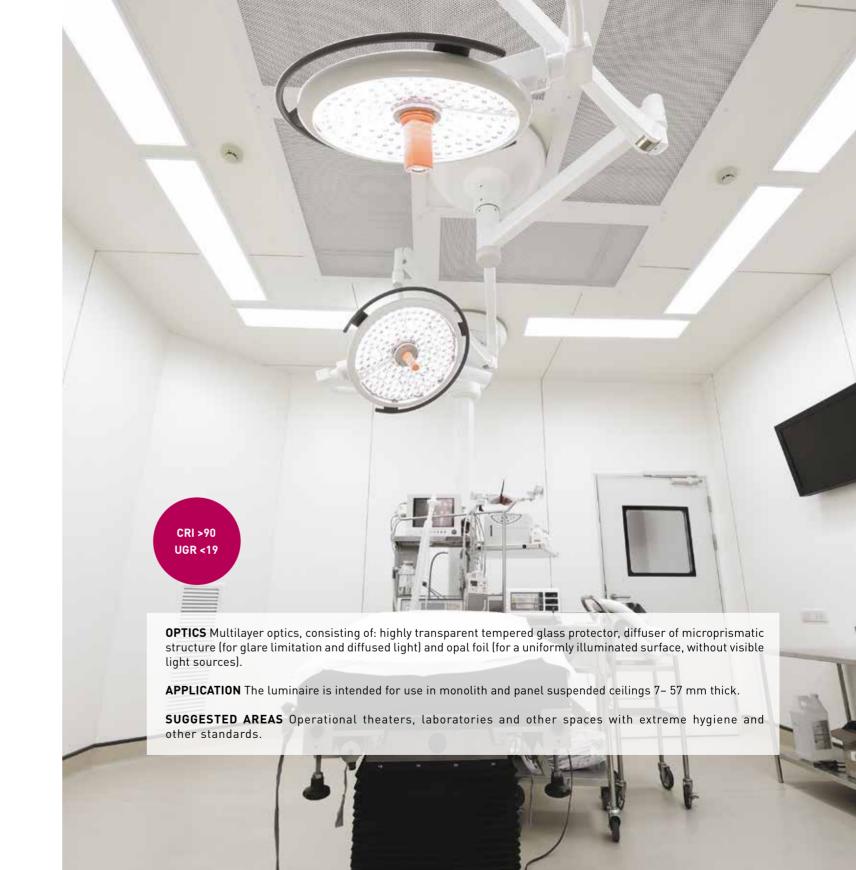


CLEAN ROOM CLA OT

Specially for operational theaters

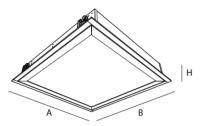


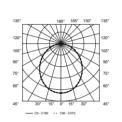
Dimensions A/B/H 1195x295x108mm Cut -out dimensions a/b/h 1180x280x160mm Ingress protection rating Impact resistance IK10 antibacterial white epoxy polyester powder Finish Weight Luminaire luminous flux (t = 25°) 7350/8700lm Total power 74/73W Luminaire efficiency 100/119 lm/W Light colour temperature 4000K CRI >90/ >80 UGR <19/<22 LED service life 60.000h(L80B10) SDCM 3 220-240V, 50-60Hz Power supply ECG, DALI Control gear



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

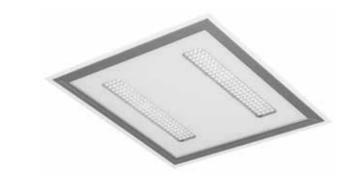
Control gear

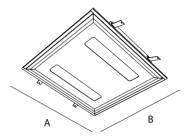
595x595x108 / 620x620x108mm / 1195x295x108mm
580x580x160 / 610x610x160mm / 1180x280x160mm

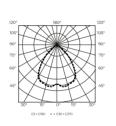
IP65
IK06
antibacterial white epoxy polyester powder
12/14kg
5281/4912lm
39/33W
135/149 lm/W
4000K
>80
<22
60.000h[L80B10] SDCM 3
220-240V, 50-60Hz
ECG, DALI



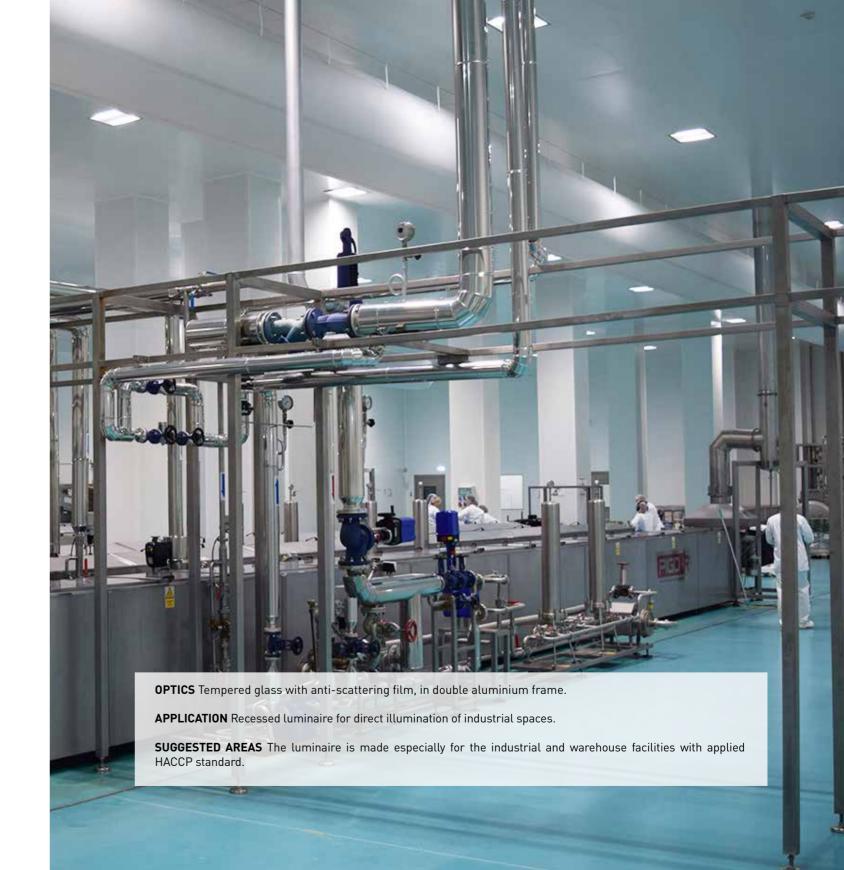
CLEAN ROOM HB





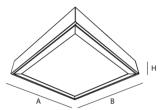


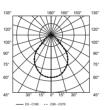
Dimensions A/B/H 500x500x60mm Ingress protection rating IP65 Impact resistance Finish antibacterial white epoxy polyester powder Weight 10kg Luminaire luminous flux (t_a=25°) 15570lm Total power 115W Luminaire efficiency 135 lm/W Light colour temperature 4000K CRI >80 UGR <19 LED service life 60.000h(L80B10) SDCM 3 220-240V, 50-60Hz Power supply Control gear ECG, DALI



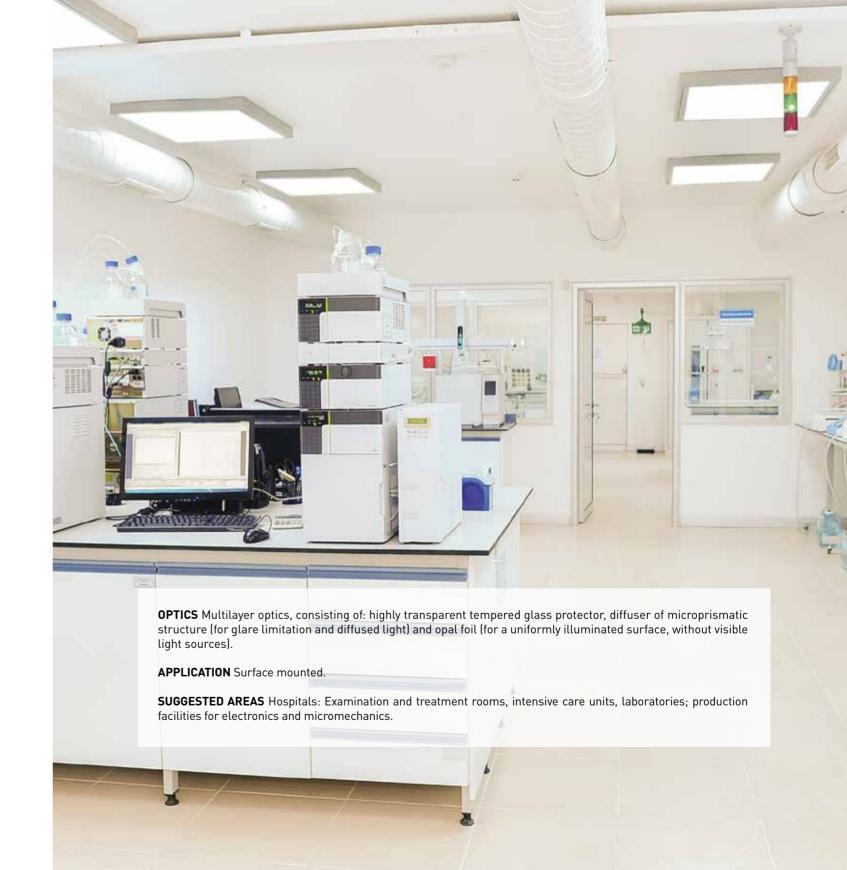
CLEAN ROOM CLA/C





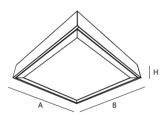


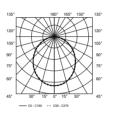
Dimensions A/B/H 600x600x108mm / 1200x300x108mm Ingress protection rating Impact resistance Finish antibacterial white epoxy polyester powder Weight 12/14kg Luminaire luminous flux (t₃=25°) 5612/5616lm 47/41W Total power Luminaire efficiency 119/137 lm/W Light colour temperature 4000K CRI >80 UGR <19 60.000h(L80B10) SDCM 3 LED service life 220-240V, 50-60Hz Power supply Control gear ECG, DALI



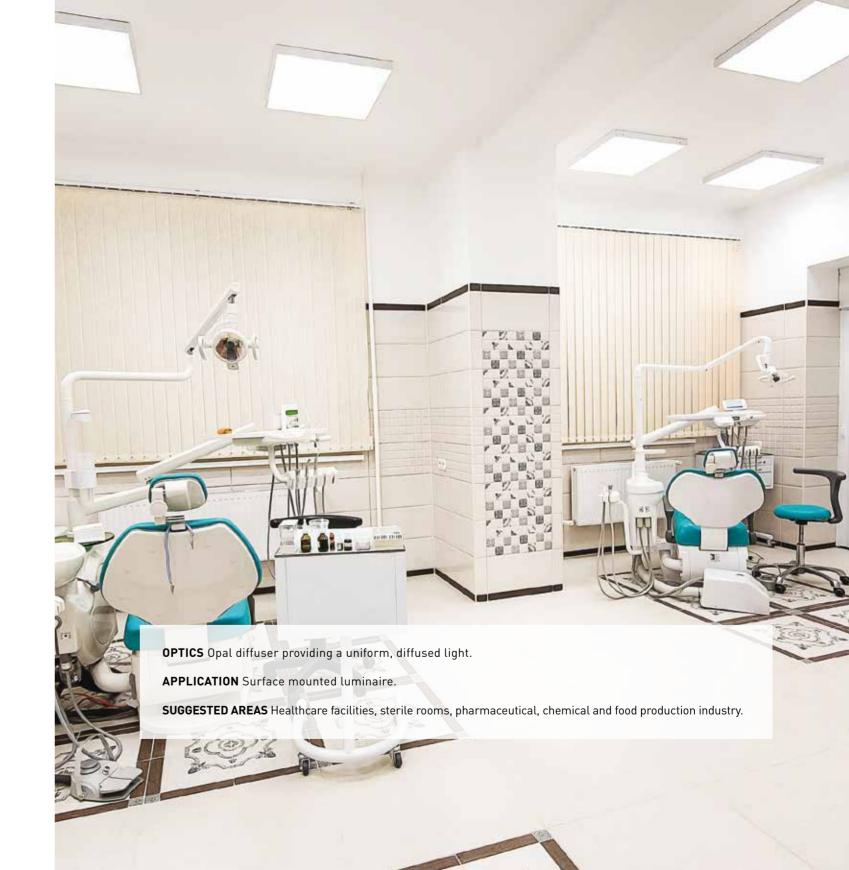
CLEAN ROOM CLD /C







Dimensions A/B/H 600x600x108mm / 1200x300x108mm IP65 IK06 Ingress protection rating Impact resistance antibacterial white epoxy polyester powder 12/14kg Finish Weight Luminaire luminous flux (t₂=25°) 5281/4912lm Total power 39/33W Luminaire efficiency 135/149lm/W Light colour temperature 4000K CRI >80 UGR <22 60.000h(L80B10) SDCM 3 220-240V, 50-60Hz LED service life Power supply Control gear ECG, DALI



CLEAN ROOM CLA /C Ex

Explosion proof luminaire



Dimensions A/B/H 600x600x108mm / 1200x300x108mm Ingress protection rating IP65 Impact resistance IK10 Finish antibacterial white epoxy polyester powder Weight 12/14kg Luminaire luminous flux (t = 25°) 5612/5616lm Total power 47/41W Luminaire efficiency 119/137 lm/W Light colour temperature 4000K CRI >80 UGR <19 LED service life 60.000h(L80B10) SDCM 3 Power supply 220-240V, 50-60Hz Control gear ECG, DALI II 3GEx nAIIC T4Gc and II 3DEx tcIIIC T65°C Dc. Ex protection degree



GENERAL Highly efficient surface mounted luminaire for direct illumination. Luminaire has Ex protection degree II 3GEx nAIIC T4Gc and II 3DEx tcIIIC 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 All areas requiring class II protection degree, such as pharmaceutical and chemical industry, service stations (tanks), LPG refilling areas, laboratories, aircraft hangars, workshops (with acetylene based welding bays).

^{*} Explosion - proof equipement according to ATEX 2014/34/EU directives