

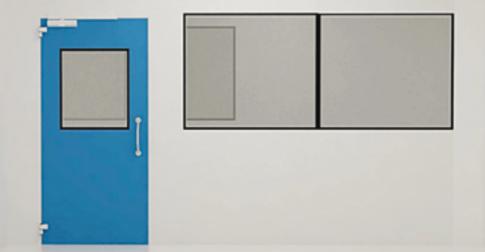
BUCK GmbH

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High protection degree Energy efficiency Longevity Comfort







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 10% light intensity loss (L90), reduce maintenance costs to minimum.

The choice of the appropriate control gear enables lighting management.

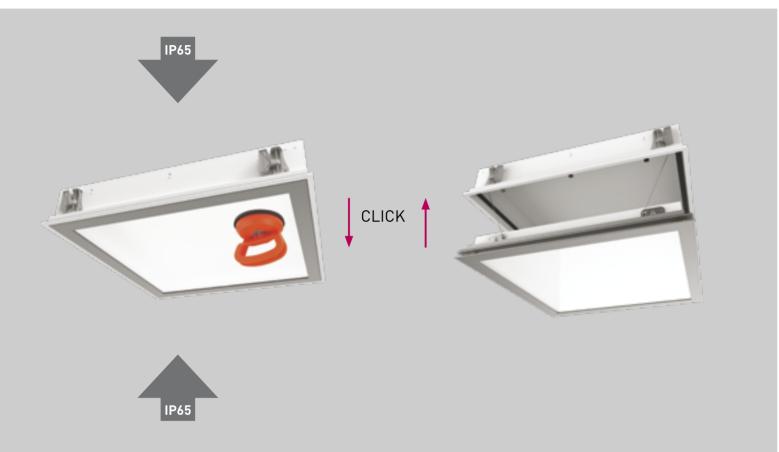
HOUSING is constructed of bended 0.8mm thick steel sheets. The parts are assembled by resistance spot welding and TIG welding. Final coating procedure includes degreasing, phosphatisation, washing and zinc primer coating, after which epoxy polyester powder RAL 9003 (white) is applied and then polymerized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

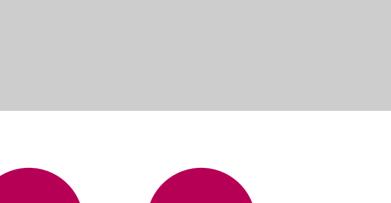
Luminaire housing consists of inner and outer casing for easy installation and serviceability.

DESIGN OVERVIEW



STANDARD EQUIPEMENT **FEATURES**

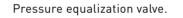














Connection coil for inner and outer housing for easy serviceability.



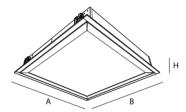
Mounting kit for monolith and panel suspended ceilings.

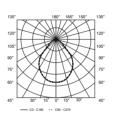
On request

- 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
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/IP65

IK09

antibacterial white epoxy polyester powder

12/14kg 5400/5550lm

45W 120/123 lm/W

> 4000K >90 <19

60.000h(L90B10) SDCM 3 220-240V, 50-60Hz

ECG, DALI

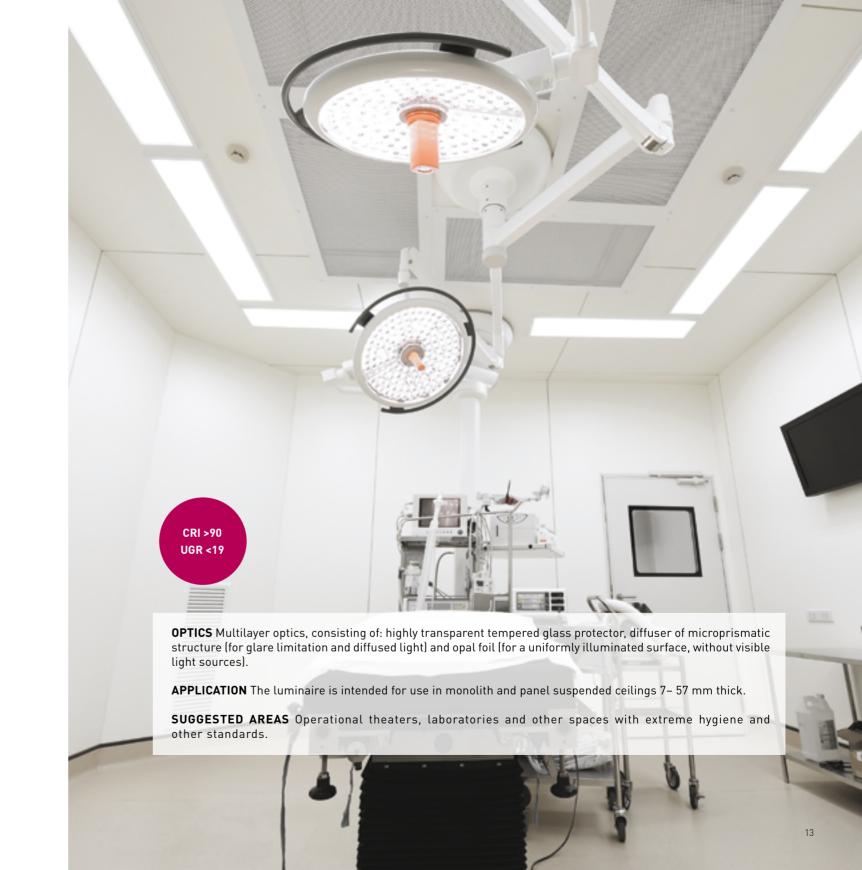


CLEAN ROOM CLA OT

Specially for operational theaters

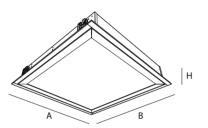


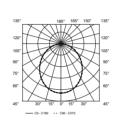
Dimensions A/B/H 1195x295x108mm Cut -out dimensions a/b/h 1180x280x160mm Ingress protection rating Impact resistance IK09 antibacterial white epoxy polyester powder Finish Weight Luminaire luminous flux (t = 25°) 7900lm Total power 73W Luminaire efficiency 108lm/W Light colour temperature 4000K CRI >90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

34W

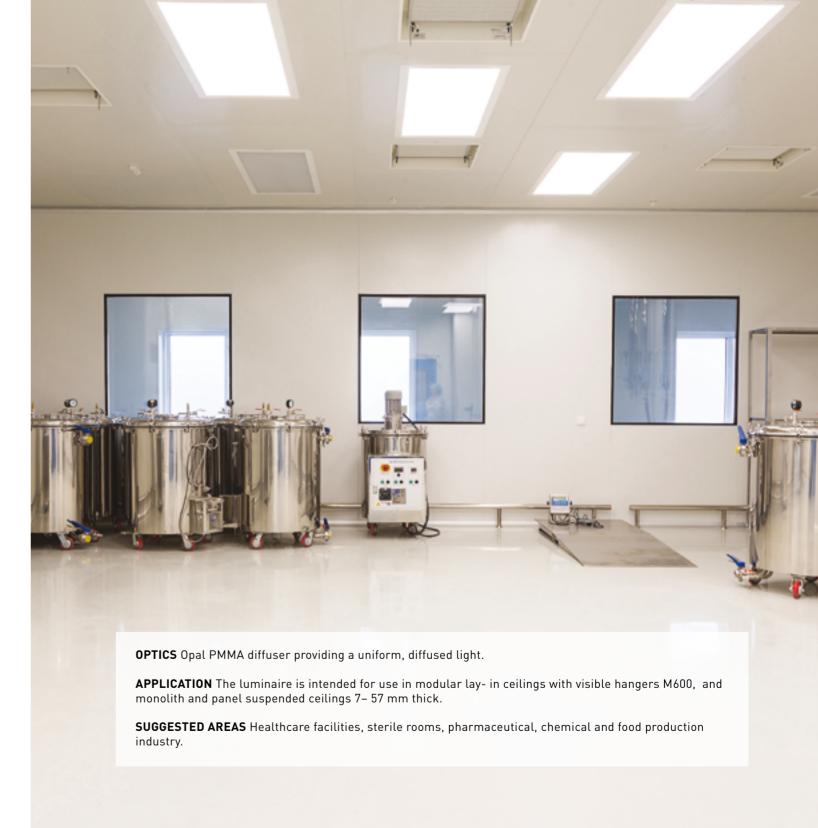
137/141 lm/W 4000K

>90

<22

60.000h(L90B10) SDCM 3 220-240V, 50-60Hz

ECG, DALI



14 15

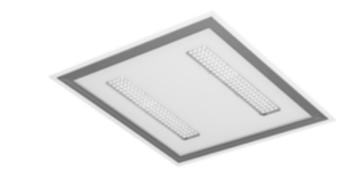
CLEAN ROOM SLIM UP

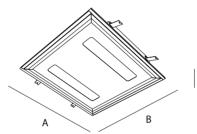


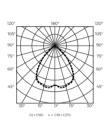
Dimensions A/B/H 595x595x60mm Cut -out dimensions a/b/h 580x580x60mm Ingress protection rating IP50/IP65 Impact resistance Finish antibacterial white epoxy polyester powder Weight 12kg Luminaire luminous flux 4600/10000lm $(t = 25^{\circ})$ 37/86W Total power 124/116 lm/W Luminaire efficiency 4000K Light colour temperature >90 CRI <22 UGR 60.000h(L90B10) SDCM 3 LED service life 220-240V, 50-60Hz Power supply ECG, DALI Control gear



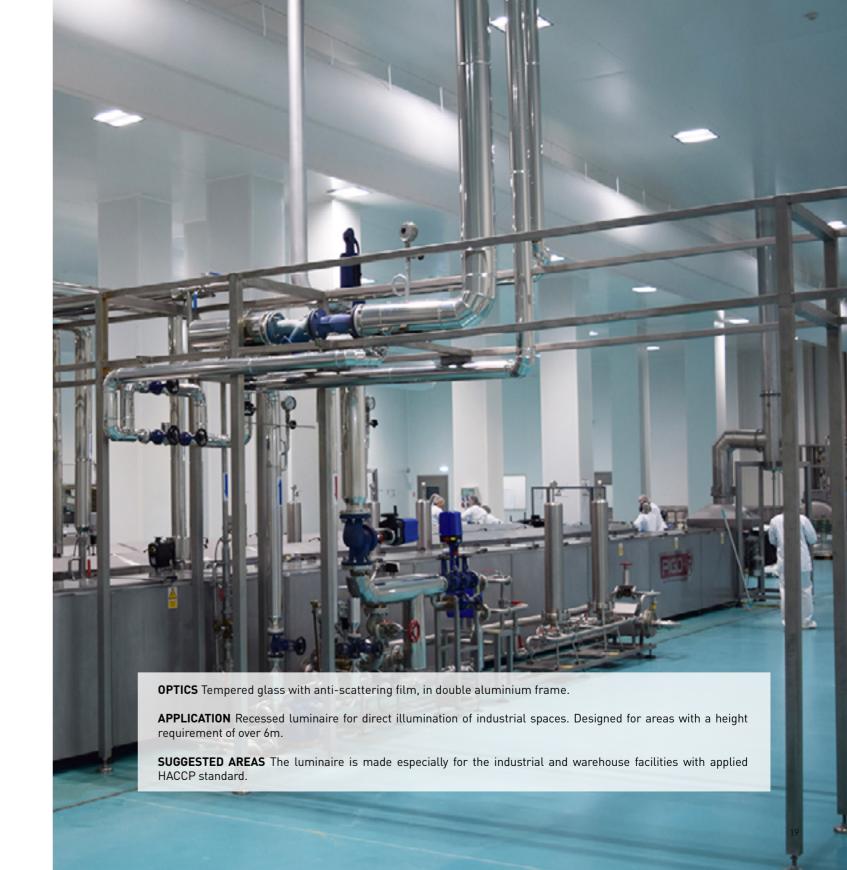
CLEAN ROOM HB





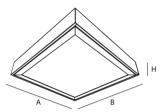


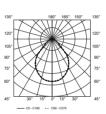
Dimensions A/B/H 500x500x60mm Cut -out dimensions a/b/h 485x485x100mm Ingress protection rating Impact IP65 resistance IK07 Finish antibacterial white epoxy polyester powder Weight Luminaire luminous flux (t = 25°) 10840/15570lm 74/115W Total power Luminaire efficiency 147/135lm/W Light colour temperature 4000K >80 CRI <22 UGR 60.000h(L80B10) SDCM 3 LED service life 220-240V, 50-60Hz Power supply ECG, DALI Control gear



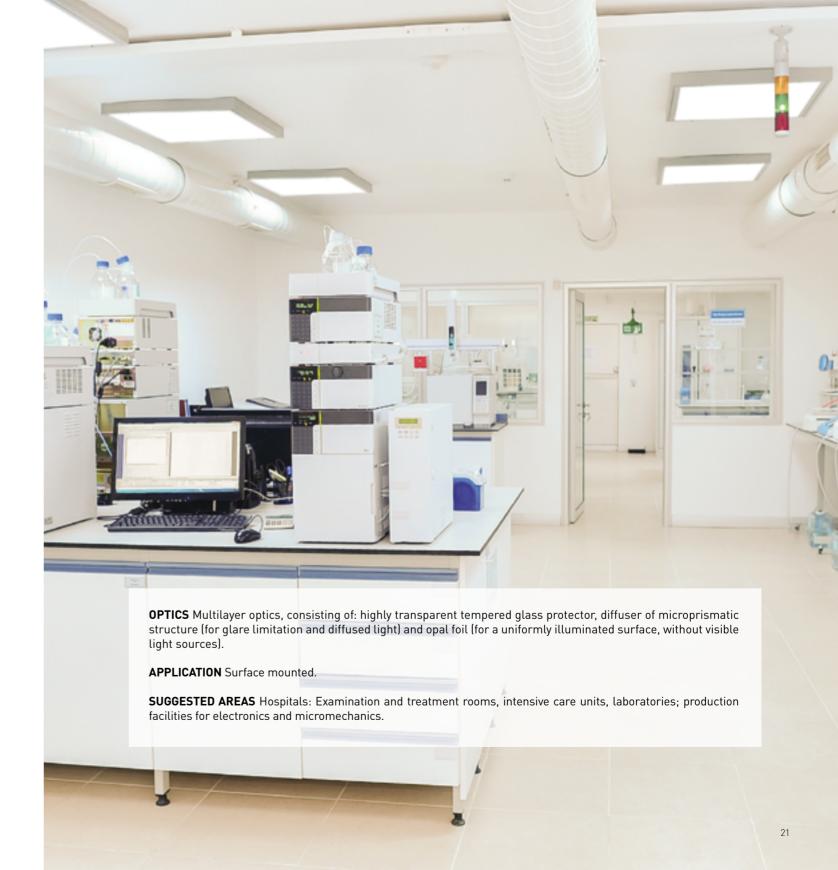
CLEAN ROOM CLA/C





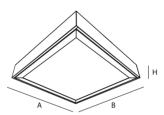


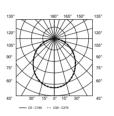
Dimensions A/B/H 600x600x109mm / 1200x300x109mm Ingress protection rating IK09 Impact resistance Finish antibacterial white epoxy polyester powder . 12/14kg Weight 5400/5550lm Luminaire luminous flux (t₃=25°) Total power 45W Luminaire efficiency 120/123 lm/W 4000K Light colour temperature CRI >80 <19 UGR 60.000h(L90B10) SDCM 3 LED service life 220-240V, 50-60Hz Power supply Control gear ECG, DALI



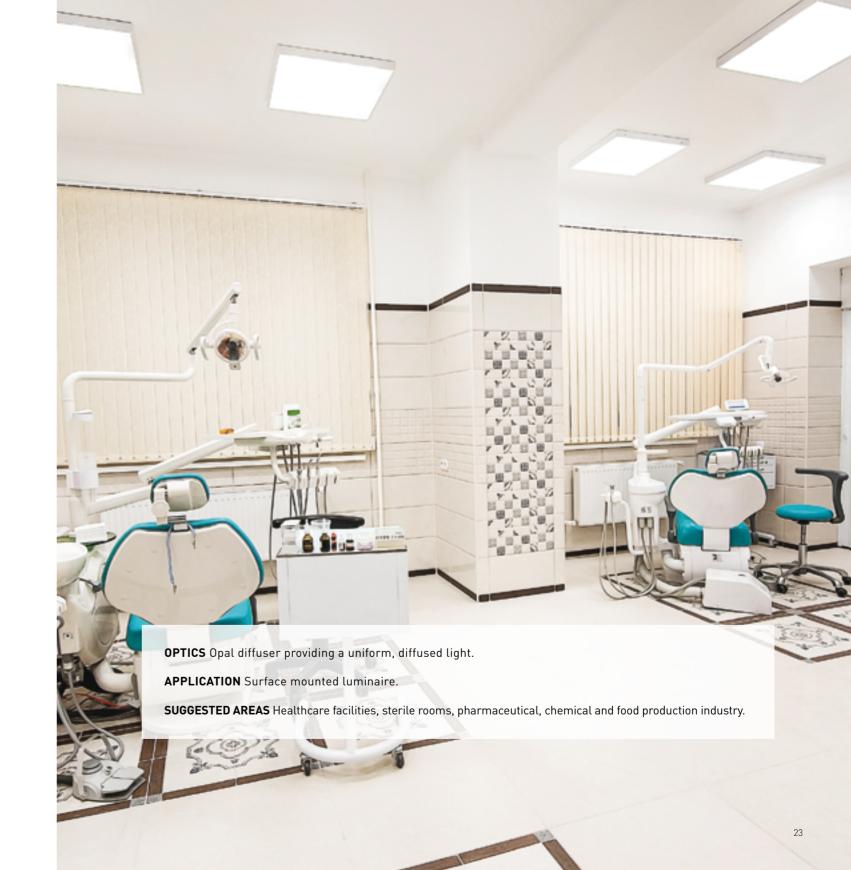
CLEAN ROOM CLD /C







Dimensions A/B/H 600x600x109mm / 1200x300x109mm IP65 IK06 Ingress protection rating Impact resistance antibacterial white epoxy polyester powder 12/14kg Finish Weight Luminaire luminous flux (t₂=25°) 4672/4789lm 34W Total power 137/141lm/W Luminaire efficiency Light colour temperature 4000K CRI >80 <22 UGR 60.000h(L90B10) 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 Ingress protection rating Impact resistance	600x600x109mm / 1200x300x109mm IP54 IK09
Finish	antibacterial white epoxy polyester powder
Weight	12/16kg
Luminaire luminous flux (t _a =25°)	5400/5500lm
Total power	44/50W
Luminaire efficiency	123/110lm/W
Light colour temperature	4000K
CRI	>80
UGR	<19
LED service life	60.000h(L90B10) SDCM 3
Power supply	220-240V, 50-60Hz
Control gear	ECG, DALI
Ex protection degree	II 3D Ex tc IIIB T65°C Dc

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



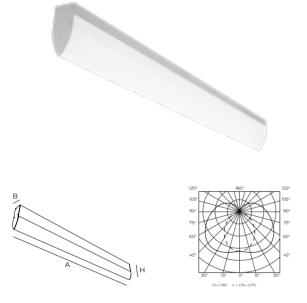
OPTICS Multilayer optics, consisting of: highly transparent tempered glass protector, diffuser of microprismatic structure (for glare limitation and diffused light) and opal foil (for a uniformly illuminated surface, without visible light sources).

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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STREAM TEARDROP



Dimensions A/B/H 1126x46x140mm Ingress protection rating IP43 Finish anodization in natural aluminium colour Weight 2.70kg Luminaire luminous flux (t₃=25°) 4500/6000lm Total power 40/55W Luminaire efficiency 113/109 lm/W Light colour temperature 4000K >80 LED service life 60.000h(L80B10) SDCM 3 220-240V, 50-60Hz ECG, DALI Power supply Control gear



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