

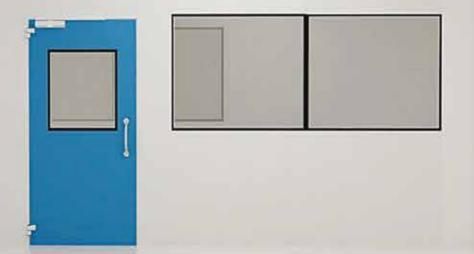
BUCK GmbH

Taunustor 1 60310 Frankfurt am Main office@bucklicht.de www.buck.lighting tel +49.731.950.32.330

Copyright © 2020 BUCK Edition: 4











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.

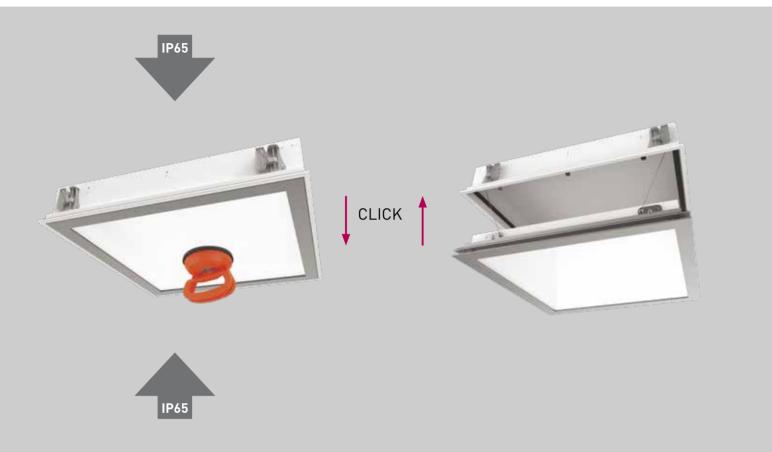
HOUSING is constructed of bended 0.8mm thick steel sheets. The parts are assembled by resistance spot welding and TIG welding. Final coating procedure includes degreasing, phosphatisation, washing and zinc primer coating, after which epoxy polyester powder RAL 9003 (white) is applied and then polymerized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

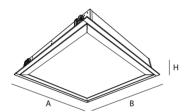


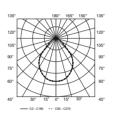


8

CLEAN ROOM CLA





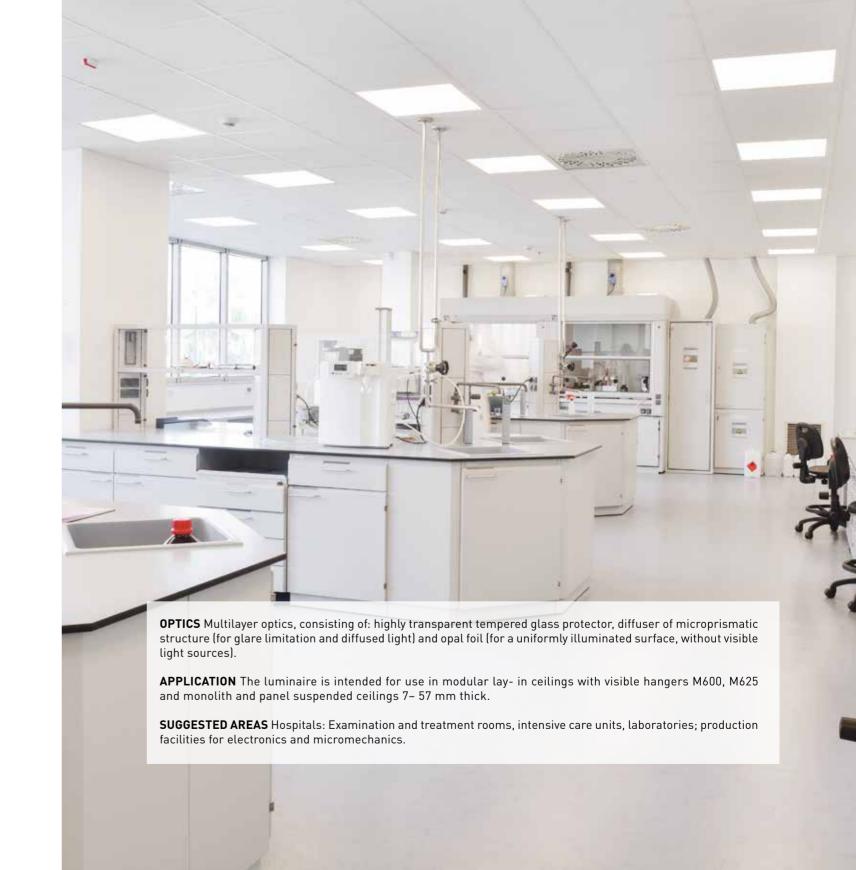


Dimensions A/B/H
Cut -out dimensions a/b/h
Ingress protection rating
Impact resistance
Finish
Weight
Luminaire luminous flux (t_a=25°)
Total power
Luminaire efficiency
Light colour temperature
CRI
UGR
LED service life

Power supply

Control gear

595x595x108/620x620x108mm/1195x295x108mm

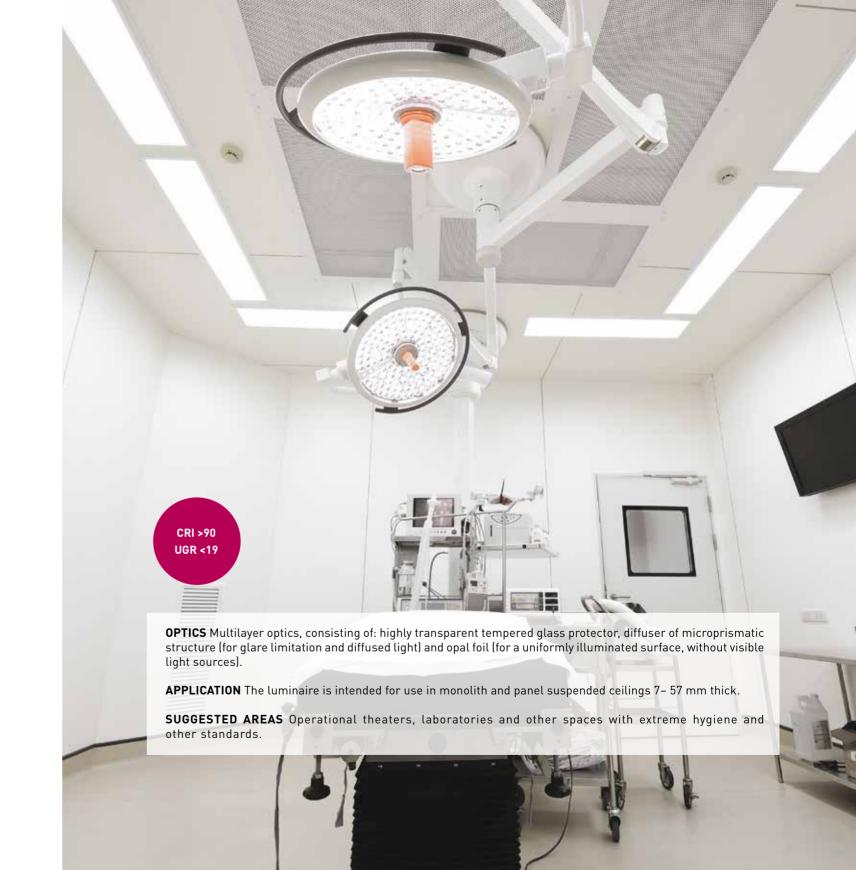


CLEAN ROOM CLA OT

Specially for operational theaters

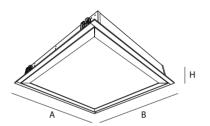


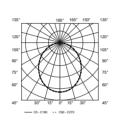
Dimensions A/B/H 1195x295x108mm Cut -out dimensions a/b/h 1180x280x160mm Ingress protection rating Impact resistance IK10 antibacterial white epoxy polyester powder Finish Weight Luminaire luminous flux (t = 25°) 7350lm Total power 73W Luminaire efficiency 100lm/W Light colour temperature 4000K CRI >90 <19 UGR 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

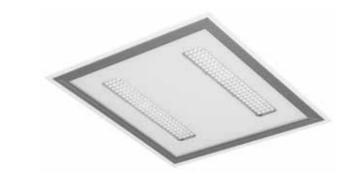
Power supply

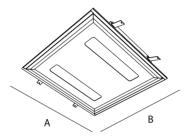
Control gear

595x595x108 / 620x620x108mm / 1195x295x108mm
580x580x160 / 610x610x160mm / 1180x280x160mm
IP65
IK06
antibacterial white epoxy polyester powder
12/14kg
4672/4789lm
34W
137/141 lm/W
4000K
>80
<22
60.000h(L90B10) SDCM 3
220-240V, 50-60Hz
ECG, DALI



CLEAN ROOM HB







74/115W

4000K

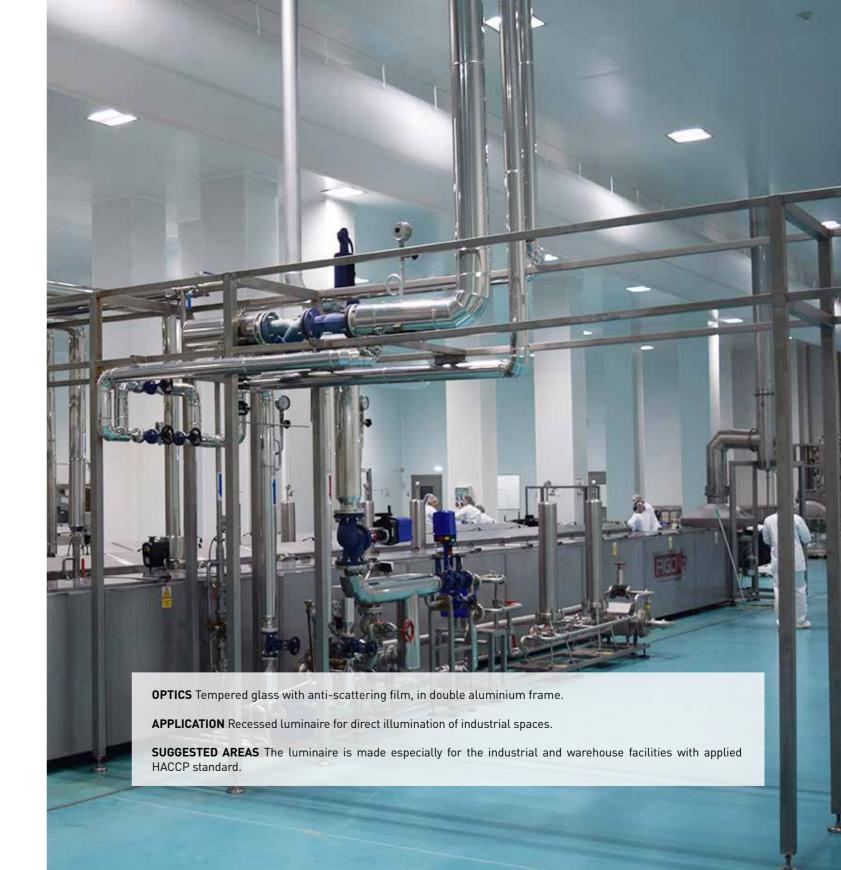
>80

<22

135/147lm/W

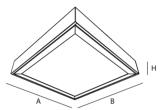
ECG, DALI

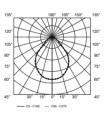
Dimensions A/B/H 500x500x60mm Ingress protection rating Impact resistance Finish antibacterial white epoxy polyester powder Weight Luminaire luminous flux (t_a=25°) 10840/15570lm Total power Luminaire efficiency Light colour temperature CRI UGR LED service life 60.000h(L80B10) SDCM 3 220-240V, 50-60Hz Power supply Control gear



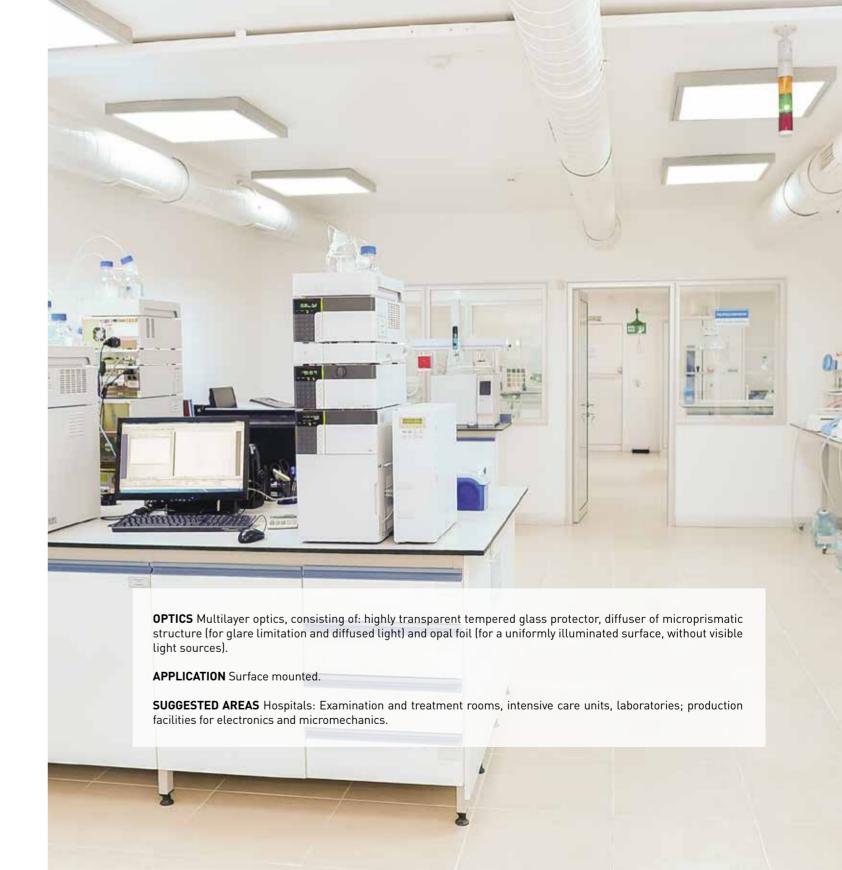
CLEAN ROOM CLA/C





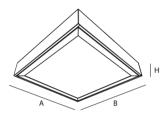


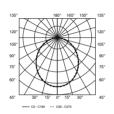
Dimensions A/B/H 600x600x108mm / 1200x300x108mm Ingress protection rating IK10 Impact resistance Finish antibacterial white epoxy polyester powder Weight 12/14kg Luminaire luminous flux (t₃=25°) 5400/5550lm Total power 45W Luminaire efficiency 120/123 lm/W 4000K Light colour temperature CRI >80 UGR <19 LED service life 60.000h(L90B10) SDCM 3 220-240V, 50-60Hz Power supply ECG, DALI Control gear



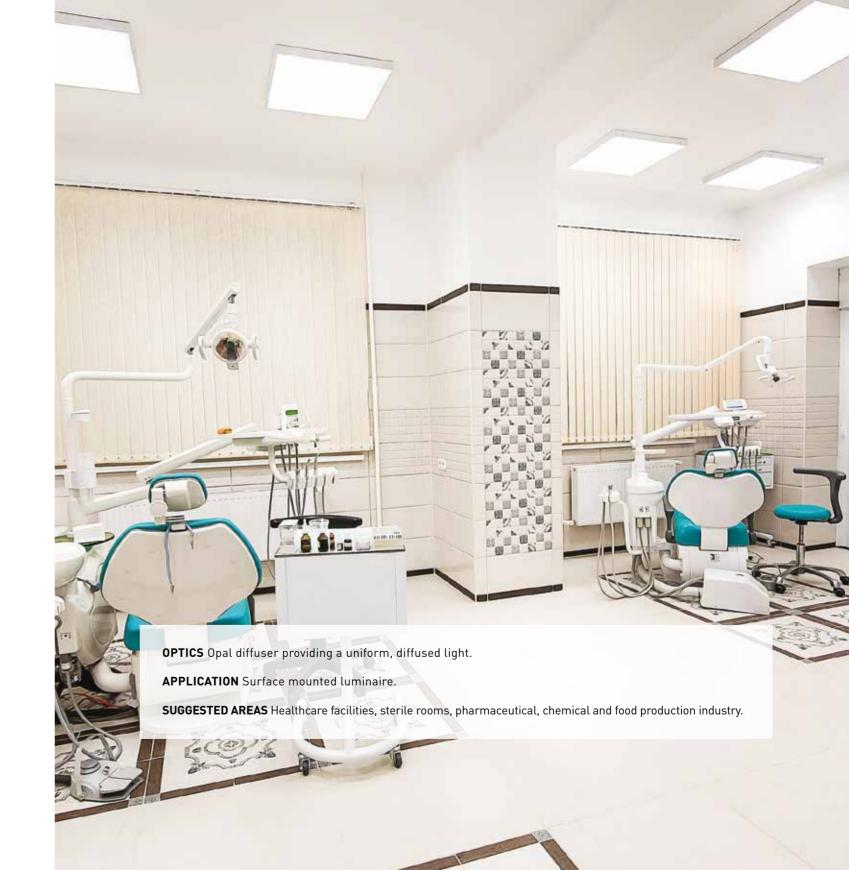
CLEAN ROOM CLD /C







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°) 4672**/4**789lm 34W Total power 137/141lm/W Luminaire efficiency Light colour temperature 4000K CRI >80 UGR <22 60.000h(L90B10) SDCM 3 220-240V, 50-60Hz ECG, DALI LED service life Power supply Control gear



CLEAN ROOM CLA /C Ex

Explosion proof luminaire



Dimensions A/B/H Ingress protection rating	600x600x109mm / 1200x300x109mm IP65
Impact resistance	IK10
Finish	antibacterial white epoxy polyester powder
Weight	12/16kg
Luminaire luminous flux (t¸=25°)	5 400 /5 500 lm
Total power	44W
Luminaire efficiency	123/125 lm/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 3GEx nAIIC T4Gc and II 3DEx tcIIIC T65°C Dc.

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



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).