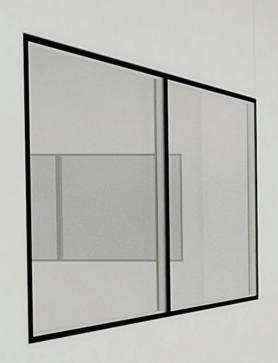


3



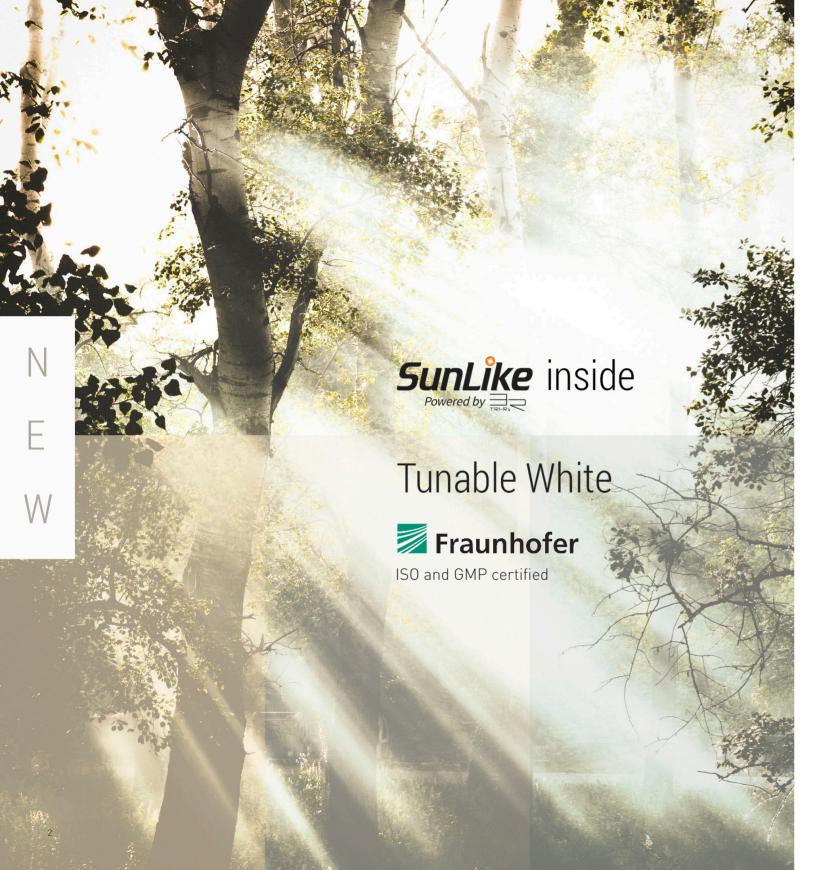


High protection degree Energy efficiency Longevity Comfort

# **BUCK GmbH**

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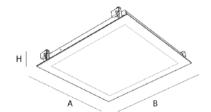
**CLEAN ROOM** is a family of light fixtures used in clean spaces, certified by Fraunhofer institute for all ISO classes, up to ISO 1. High ingress protection IP65, as above so below, is an essential feature of this luminaire.

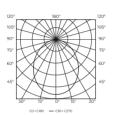
Hand-operated TIG welding, special multi-layer coating and lasting LED sources provide durability and little to no maintenance. Due to a vast choice of different optics, these luminaires are easily incorporated in every type of clean room spaces, whether it is microchip or pharmaceutical industry, laboratories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

# **CLEAN ROOM MG**









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

Control gear

antibacterial white epoxy polyester powder
8.5kg
5500lm
42W
130lm/W
4000K
>80
<22

623x623x61mm 605x605x110mm

60.000h(L90B10) SDCM 3 220-240V, 50-60Hz ECG, DALI **OPTICS** The tempered mat glass without a visible frame provides increased protection and a smooth surface for easy maintenance. APPLICATION In monolith and panel suspended ceilings. SUGGESTED AREAS Pharmaceutical industry.

# 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.

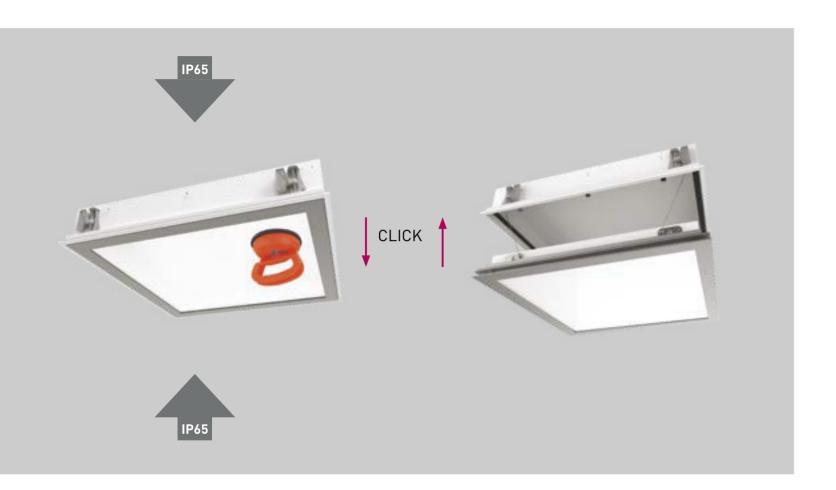
**HOUSING** is constructed of bent 0.8mm thick steel sheets. The parts are assembled by resistance spot welding and TIG welding. Final coating procedure includes degreasing, phosphatisation, washing and zinc primer coating, after which epoxy polyester powder RAL 9003 (white) is applied and then polymerized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



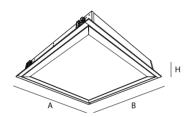
Mounting kit for monolith and panel suspended ceilings.

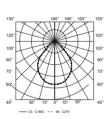
# On request

- 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

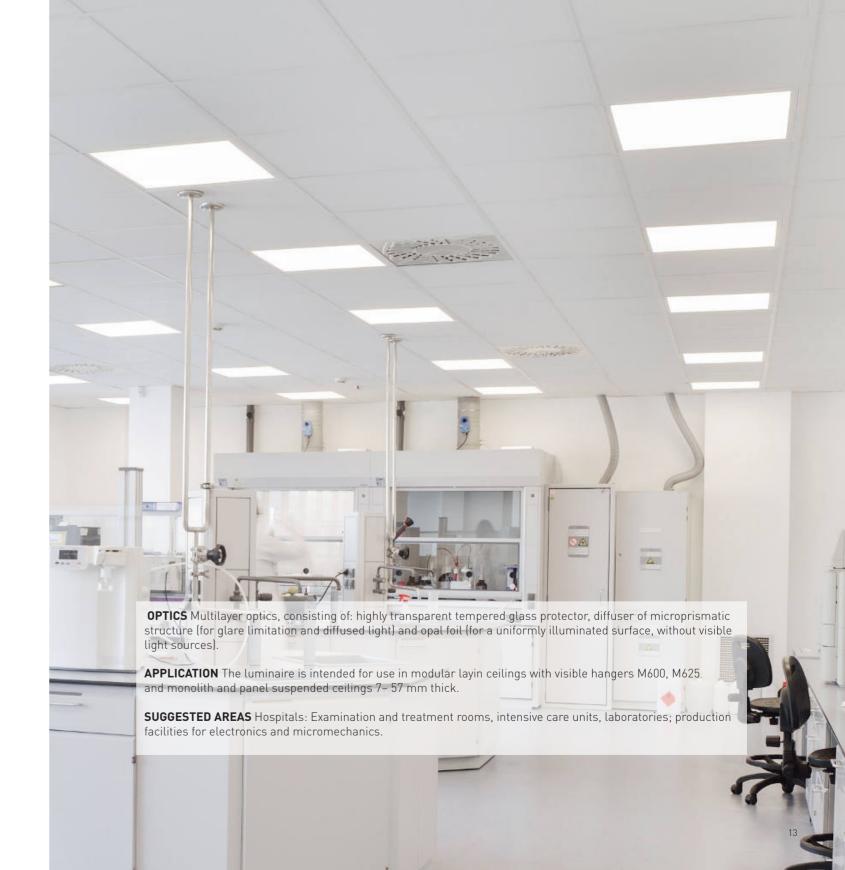
# **CLEAN ROOM CLA**







Dimensions A/B/H 595x595x108/620x620x108mm/1195x295x108mm Cut -out dimensions a/b/h 580x580x160/610x610x160mm/1180x280x160mm Ingress protection rating IP65/IP65 Impact resistance antibacterial white epoxy polyester powder Finish 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 LED service life 60.000h(L90B10) SDCM 3 Power supply 220-240V, 50-60Hz Control gear ECG, DALI



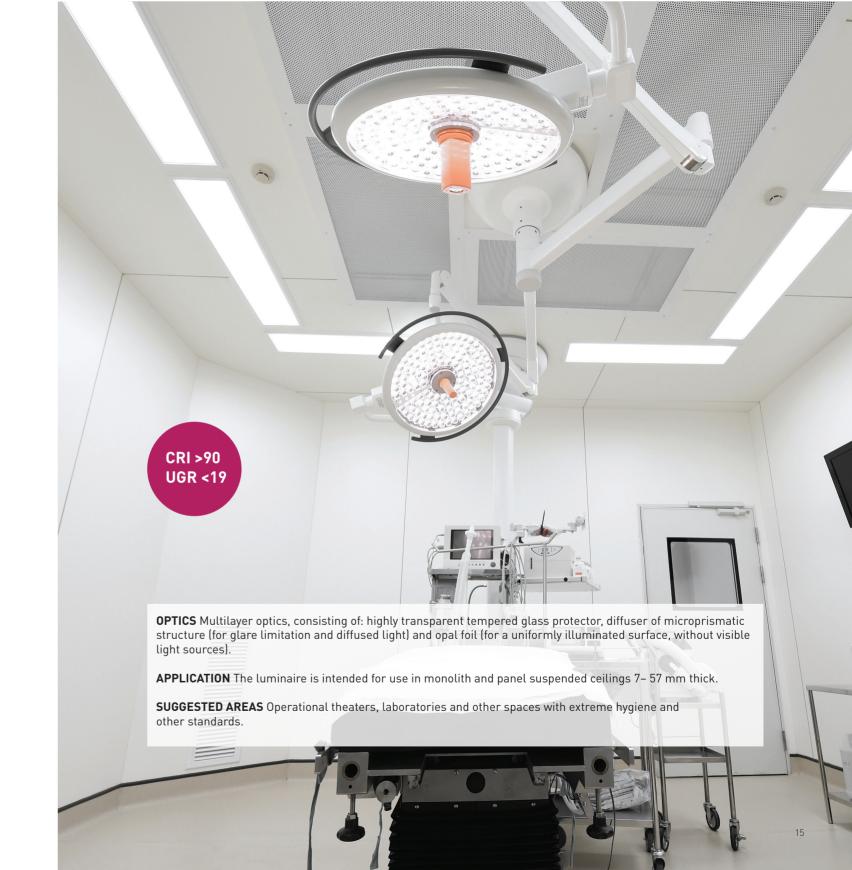
<sup>\*</sup> A novelty in this group is the Clean Room CLA luminaire variant with a shallower housing, dimensions A/B/H= 623/623/75mm, a/b/h= 580/580/130mm.

# **CLEAN ROOM CLA OT**

Speciallyf or operational theaters

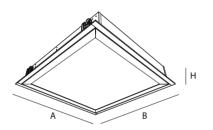


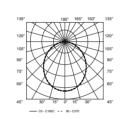
Dimensions A/B/H 1195x295x108mm Cut -out dimensions a/b/h 1180x280x160mm Ingress protection rating IP65 Impact resistance IK09 Finish antibacterial white epoxy polyester powder Weight Luminaire luminous flux (t = 25°) 7900lm Total power 73W Luminaire efficiency 108lm/W Light colour temperature 4000K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

Control gear

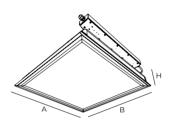
595x595x108 / 620x620x108mm / 1195x295x108mm
580x580x160 / 610x610x160mm / 1180x280x160mm
IP65
IK06
antibacterial white epoxy polyester powder
12/14kg
4672/4789lm
34/36W
137/133 lm/W
4000K
>80, >90
<22
60.000h(L90B10) SDCM 3
220-240V, 50-60Hz
ECG, DALI

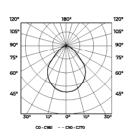


#### **CLEAN ROOM SLIM UP**

Control gear



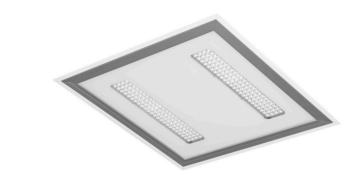


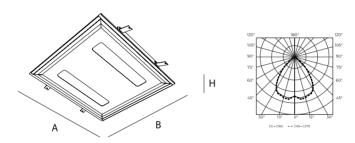


Dimensions A/B/H 595x595x60mm Cut -out dimensions a/b/h 580x580x60mm Ingress protection rating IP50/IP65 Impact resistance Finish antibacterial white epoxy polyester powder Weight Luminaire luminous flux 4600/10000lm  $(t = 25^{\circ})$ 37/86W Total power 124/116 lm/W Luminaire efficiency 4000K Light colour temperature >80, >90 CRI <19, <22 UGR 60.000h(L90B10) SDCM 3 LED service life 220-240V, 50-60Hz Power supply ECG, DALI

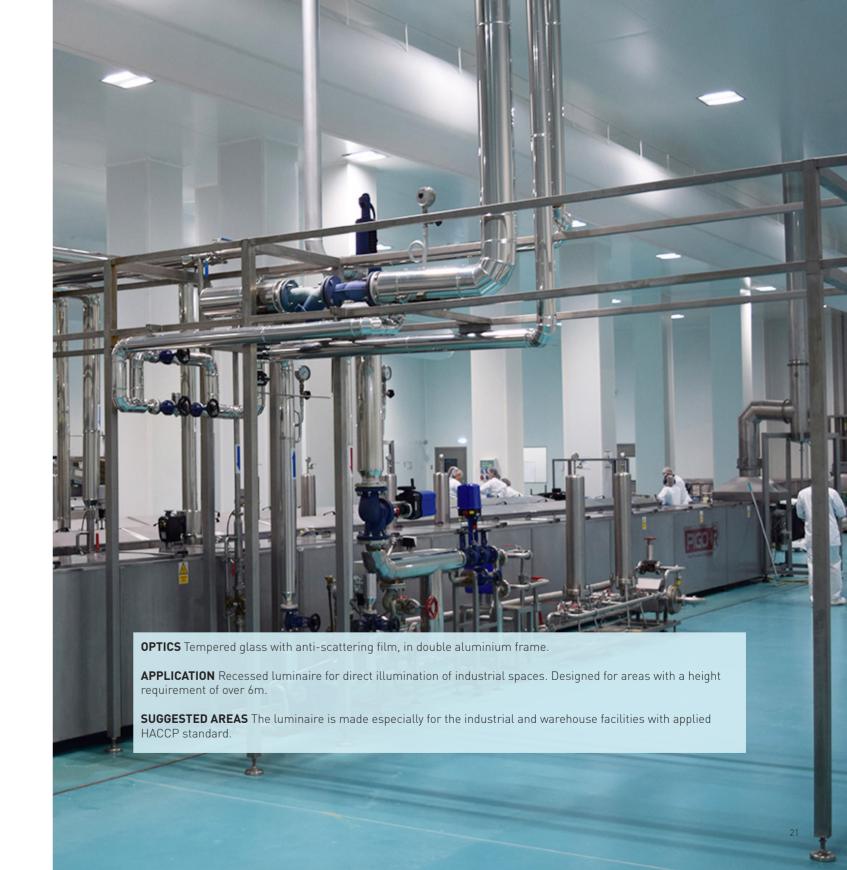


# **CLEAN ROOM HB**





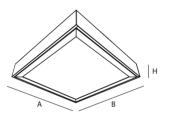
500x500x60mm Dimensions A/B/H 485x485x100mm Cut -out dimensions a/b/h IP65 Ingress protection ratingl mpact IK07 resistance antibacterial white epoxy polyester powder Finish 7kg Weight Luminaire luminous flux (t<sub>3</sub>=25°) 10838/15873lm 74/115W Total power Luminaire efficiency 147/138lm/W Light colour temperature 4000K CRI >80 UGR <22 60.000h(L80B10) SDCM 3 LED service life Power supply 220-240V, 50-60Hz Control gear ECG, DALI

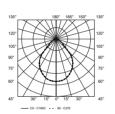


# CLEAN ROOM CLA/C

Control gear







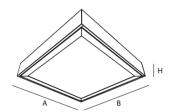
ECG, DALI

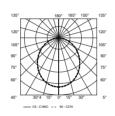
Dimensions A/B/H 600x600x109mm / 1200x300x109mm Ingress protection rating IP65 IK09 Impact resistance antibacterial white epoxy polyester powder 12/14kg Finish Weight 5400/5550lm Luminaire luminous flux (t<sub>a</sub>=25°) 45W Total power 120/123 lm/W Luminaire efficiency 4000K Light colour temperature CRI >80 UGR <19 60.000h(L90B10) SDCM 3 LED service life 220-240V, 50-60Hz Power supply



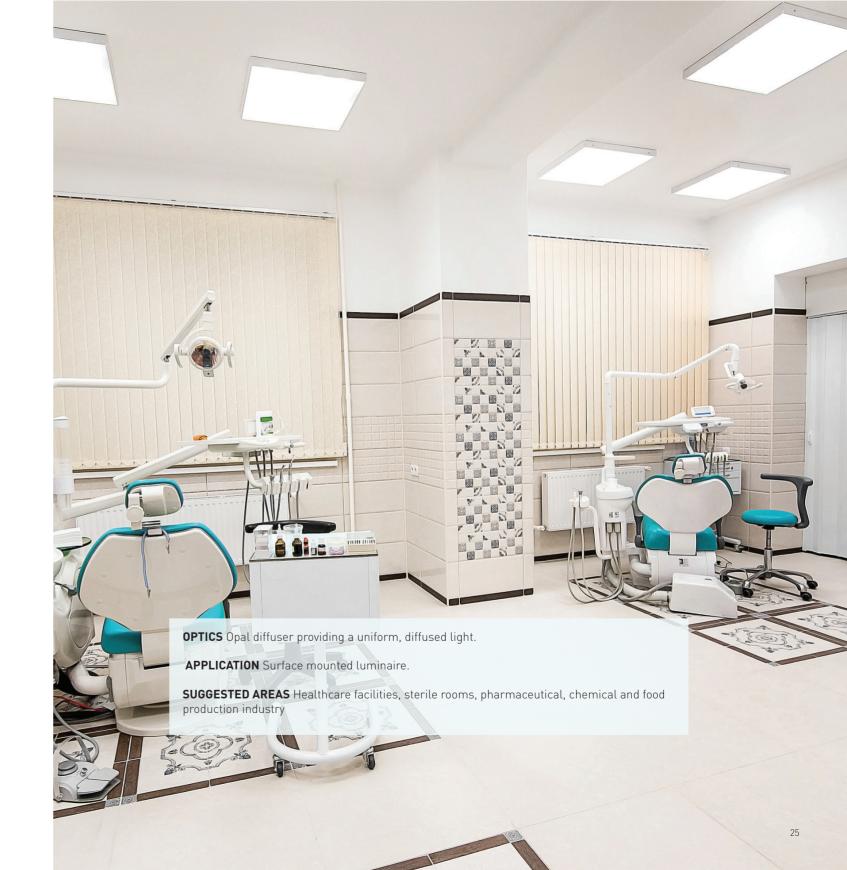
# CLEAN ROOM CLD /C







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



# **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<sub>s</sub>=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.

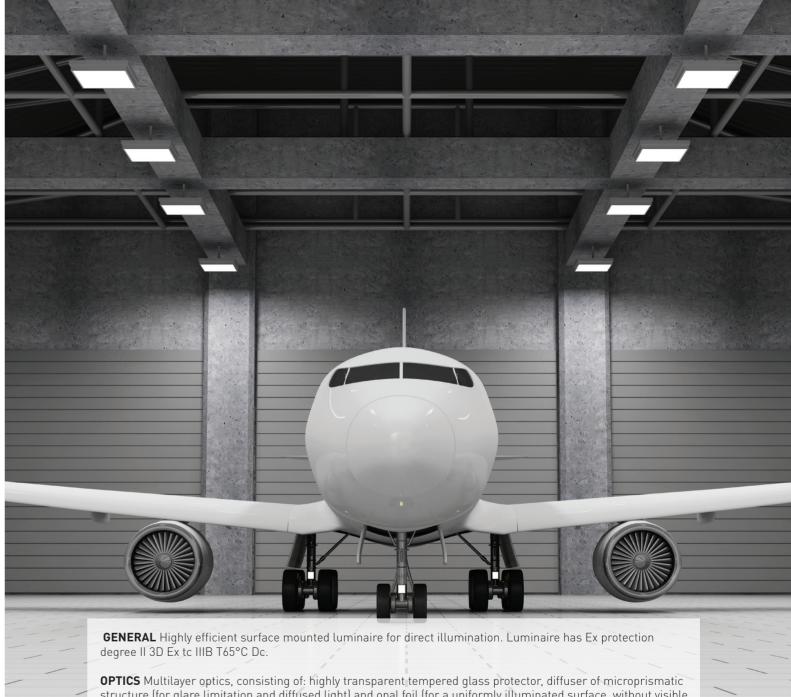
**SUGGESTED AREAS** Spaces with potentially explosive ambience, Pharmaceutical & Chemical industry

# CLEAN ROOM CLA /C Ex

Explosio np roof luminai re



Dimensions A/B/H 600x600x109mm / 1200x300x109mm Ingress protection rating IP54 Impact resistance IK09 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 >80 CRI UGR <19 LED service life 60.000h(L90B10) SDCM 3 Power supply 220-240V, 50-60Hz Control gear ECG, DALI II 3DEx tc IIIB T65°C Dc Ex protection degree



**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).

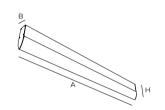
**APPLICATION** Surface mounted luminaire.

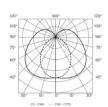
SUGGESTED AREAS The luminaire is applicable in spaces with potentially explosive ambience, such as the pharmaceutical industry, and places where powder chemicals and dangerous materials are handled.

<sup>\*</sup>Explosion - proof equipement according to ATEX 2014/34/EU directives Compliance with: EN IEC 60079-0:2018, EN 60079-31:2014

# STREAM TEARDROP







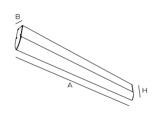
Dimensions A/B/H Ingress protection rating Weight Luminaire luminous flux (t<sub>3</sub>=25°) Total power Luminaire efficiency Light colour temperature CRI LED service life Power supply Control gear

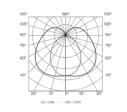
anodization in natural aluminium colour 4030/7330lm 25/51W 161/144 lm/W 4000K >80 72.000h(L80B10) SDCM 3 220-240V, 50-60Hz ECG, DALI

1140x46x140mm

# STREAM TEARDROP LSL 620nm







2.70kg

30W

2600lm

87lm/W

620nm

ECG, DALI

Dimensions A/B/H 1140x46x140mm Ingress protection rating Finish anodization in natural aluminium colour Weight Luminaire luminous flux (t<sub>.</sub>=25°) Total power Luminaire efficiency Light colour temperature 50.000h(L80B10) LED service life 220-240V, 50-60Hz Power supply Control gear

