

Clean room luminaire/recessed luminaire - Micro-prismatic diffuser - direct distribution

Sheet steel housing suitable for ceilings with visible T-rails, concealed symmetrical rail constructions and cut-out ceilings; the protection rating refers to the visible luminaire surface; suitable for use in clean rooms and clean room areas per DIN 14644-1; manufactured per IPA provisions, as well as the directives for quality assurance GMP (Good Manufacturing Practice); Housing colour traffic white RAL 9016; Direct light distribution using microprismatic pane made of acrylic glass with naturally anodised aluminium frame; neutral white light colour (840) with very good colour consistency and high colour rendering  $R_a > 80$  for VDU workstations,  $65^\circ < 3000 \text{ cd/m}^2$  with omnidirectional glare suppression according to current DIN-EN 12464-1 standard; Integrated LED driver design. Electrical connection and connection of control cable using 5-pole connection terminal with plug-in contacts; With changeover converter for emergency lighting operation on request. UBM universal fastening mechanism for concealed symmetrical rail constructions included in delivery. An extractor is included for prismatic and frosted panes to remove the sealing frame. UBM universal fastening mechanism for concealed symmetrical rail constructions included in delivery. An extractor is included for prismatic panes to remove the sealing frame. Suitable for air purity class ISO 14644-1 Class 2 with excellent to very good results in terms of microbial metabolic potential and chemical resistance.

## CHARACTERISTICS

Order number	72500016653
EAN number	4020863330522
Commodity code	94051190
Certification mark	IP 54, Protection class I, VDU $65^\circ < 3000$ , F, Clean room, HACCP DIN10500/Food/IFS/BRC, Indoor, CE
Impact resistance (IK rating)	IK02
Ambient temperatur	$t_a 25^\circ\text{C}$
Special properties	Ready for IoT
Warranty period	5 years
State funding programs	BEG - Federal funding for efficient buildings (valid only for Germany)

## ELECTRICAL ENGINEERING

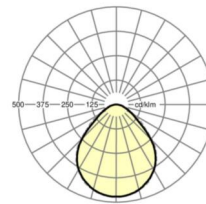
Controller	Electronic driver DALI2 (1 pcs.)
System output	32W
Mains voltage	230V/50Hz
Circuit breakers (inrush current)	13 pieces/B10, 21 pieces/B16, 21 pieces/C10, 35 pieces/C16
Energy efficiency class/light source	C

## LIGHTING TECHNOLOGY

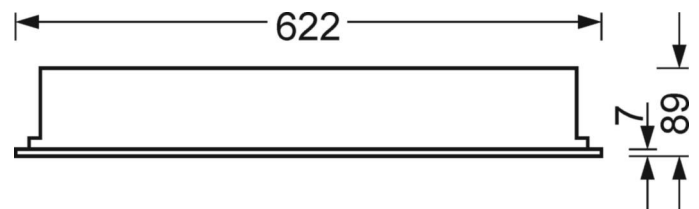
Placement	LED, Colour rendering/Light colour CRI $\geq 80 / 4000\text{K}$
Colour tolerance (MacAdam)	3SDCM
Nominal luminous flux	4355lm
LED service life	50000h L80/B10 ( $T_q 25^\circ\text{C}$ )
Luminaire luminous efficiency	134lm/W
UGR lat./long.	18.5 / 18.9

## DEEP-LINK

<https://www.regiolux.de/en/article/72500016653>



Reference	LED 4300lm 840
$\eta_{LB}$	100 %
$\Phi_{\downarrow/\uparrow}$	100 % / 0 %
UGR lat./long.	18.5 / 18.9
VDU	$65^\circ < 3000\text{cd/m}^2$



## MECHANICS

<b>Housing colour</b>	traffic white RAL 9016
<b>Dimensions (LxWxDxH)</b>	622mm x 622mm x 89mm
<b>Depth</b>	82mm
<b>Ceiling system</b>	Ceilings with visible T-rails [s-TS] (625x625 mm), Concealed symmetrical rail construction [VS] (625x625 mm), cut-out ceilings [AD]
<b>Ceiling cut-out (LxW/D)</b>	585mm x 585mm
<b>Installation depth</b>	150mm [AD]; 250mm [s-TS]; 150mm [s-TS] min; 150mm [VS]
<b>Weight (net)</b>	5.3kg
<b>Type of installation</b>	Installation in clean room ceilings, Ceiling installation individual mounting

## Dimensions

<b>L</b>	622 mm	Length
<b>B</b>	622 mm	Width
<b>H</b>	89 mm	Height
<b>T</b>	82 mm	Depth
<b>DA(L)</b>	585 mm	Cutting dimension length
<b>DA(B)</b>	585 mm	Cutting dimension width
<b>DS min</b>	15 mm	Ceiling thickness minimum
<b>DS max</b>	40 mm	Ceiling thickness maximum
<b>Et(min)</b>	150 mm	Ceiling distance minimum - minimum dimension (visible T-rail)
<b>Et(AD)</b>	150 mm	Ceiling distance minimum (cut-out ceiling)
<b>Et(TS)</b>	250 mm	Ceiling distance minimum - recommended (visible T-rail)
<b>Et(VS)</b>	150 mm	Ceiling distance minimum (concealed symmetrical)
<b>MLTS1</b>	625 mm	Module dimension length (visible T-rail)
<b>MLTS_1/2</b>	625	Module dimension length (visible T-rail) 1/2
<b>MLVS</b>	625 mm	Module dimension length (concealed symmetrical)
<b>MBTS1</b>	625 mm	Module dimension width (visible T-rail)
<b>MBTS_1/2</b>	625	Module dimension width (visible T-rail) 1/2
<b>MBVS</b>	625 mm	Module dimension width (concealed symmetrical)