

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 via 3-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

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|-------------------------------|--|
| Order number | 72560014153 |
| EAN number | 4020863330621 |
| 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 | $t_a 25^\circ\text{C}$ |
| Warranty period | 5 years |
| State funding programs | BEG - Federal funding for efficient buildings (valid only for Germany) |

ELECTRICAL ENGINEERING

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|--------------------------------------|--|
| Controller | Electronic driver (1 pcs.) |
| System output | 32W |
| Mains voltage | 230V/50Hz |
| Circuit breakers (inrush current) | 15 pieces/B10, 25 pieces/B16, 26 pieces/C10, 42 pieces/C16 |
| Energy efficiency class/light source | C |

LIGHTING TECHNOLOGY

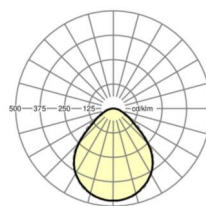
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|-------------------------------|---|
| Placement | LED, Colour rendering/Light colour CRI $\geq 80 / 4000\text{K}$ |
| Colour tolerance (MacAdam) | 3SDCM |
| Nominal luminous flux | 4355lm |
| LED service life | 50000h L80/B10 ($T_q 25^\circ\text{C}$)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

MECHANICS

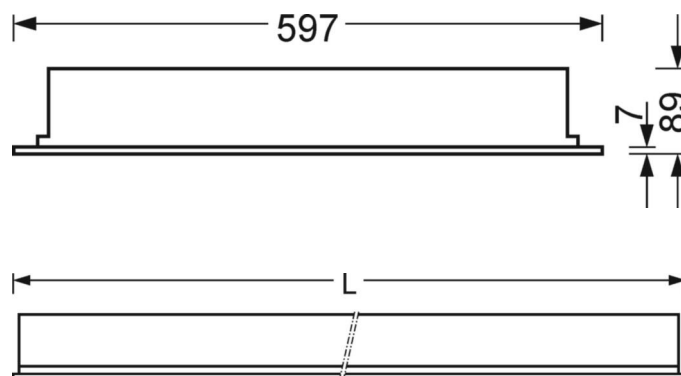
| | |
|-------------------------|---|
| Housing colour | traffic white RAL 9016 |
| Dimensions (LxWxD) | 597mm x 597mm x 89mm |
| Depth | 82mm |
| Ceiling system | Ceilings with visible T-rails [s-TS] (600x600 mm), Concealed symmetrical rail construction [VS] (600x600 mm), cut-out ceilings [AD] |
| Ceiling cut-out (LxW/D) | 585mm x 585mm |
| Installation depth | 150mm [AD]; 250mm [s-TS]; 150mm [s-TS] min; 150mm [VS] |
| Weight (net) | 5.3kg |
| Type of installation | Installation in clean room ceilings, Ceiling installation individual mounting |

DEEP-LINK

<https://www.regiolux.de/en/article/72560014153>



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



Dimensions

| | | |
|-----------------|--------|---|
| L | 597 mm | Length |
| B | 597 mm | Width |
| H | 89 mm | Height |
| T | 82 mm | Depth |
| DA(L) | 585 mm | Cutting dimension length |
| DA(B) | 585 mm | Cutting dimension width |
| DS min | 15 mm | Ceiling thickness minimum |
| DS max | 40 mm | Ceiling thickness maximum |
| Et(min) | 150 mm | Ceiling distance minimum - minimum dimension (visible T-rail) |
| Et(AD) | 150 mm | Ceiling distance minimum (cut-out ceiling) |
| Et(TS) | 250 mm | Ceiling distance minimum - recommended (visible T-rail) |
| Et(VS) | 150 mm | Ceiling distance minimum (concealed symmetrical) |
| MLTS1 | 600 mm | Module dimension length (visible T-rail) |
| MLTS_1/2 | 600 | Module dimension length (visible T-rail) 1/2 |
| MLVS | 600 mm | Module dimension length (concealed symmetrical) |
| MBTS1 | 600 mm | Module dimension width (visible T-rail) |
| MBTS_1/2 | 600 | Module dimension width (visible T-rail) 1/2 |
| MBVS | 600 mm | Module dimension width (concealed symmetrical) |