

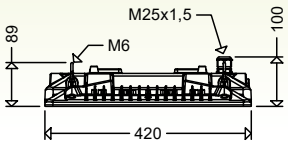
DUEVO

LED High Bay Fitting
Series 3301/3302...

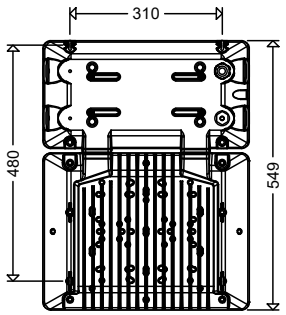
Applications:
Production areas and warehouses, cool storage facilities, walkways in shelve areas, driveways etc.

Design:
Two versions are available: 1 (3301...) or 2 (3302...) LED-segments.
Housing: Die-cast aluminum, DB 702 (mica-iron paint, grey). LED-segment(s) with LED modules, optics and flat safety glass (IK10). ECG segment with integrated electronic control gear, prewired on terminals.

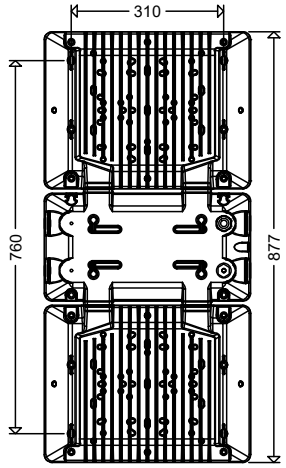
Light distribution: Without optics wide beam, with optics wide (**B**), narrow-wide (**TB**) or narrow beam (**T**), with oval optics (**TO**) for illumination of aisles in rack areas respectively asymmetrical beam (**A**).
Entries: 1 gland and 1 blind plug M25 x 1.5.
Mounting: 4 eyelets M6 included in delivery.



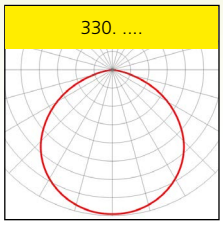
3301...

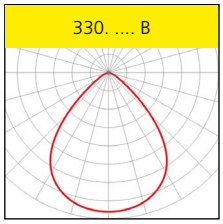


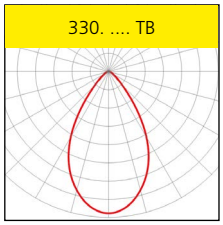
3302...

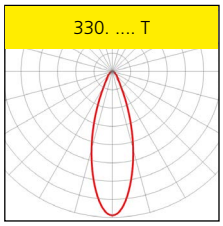


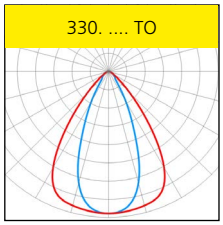


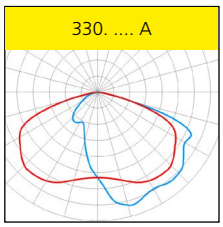








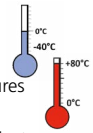




Technical Data:
LED module: 4,000 K, CRI > 80, service life L_{95} > 100,000 h, Zhaga compliant
ECG: 220-240 V, 50/60 Hz, Surge voltage resistance 4 kV, overload and short circuit protection.
Ambient temperature: -20°C up to .. °C (see article tables)

Options:

- 5,000 K; light colour (**850**)
- green LEDs, for lighting potato stores
- cable looping at 1 small side
- FastConnect (**FC**), quick plug-in connection
- PMMA cover, satinised (**C**), for glare limitation
- for lower ambient temperatures (**T40**), down to -40 °C
- for higher ambient temperatures (**H80**), up to +80 °C
- increased resistance (**ER**), against corrosive atmospheres
- high resistance (**HR**), against corrosive atmospheres



- ball-proof, with special ceiling mountings for sports halls



- for connection to central emergency supply systems (**ZB**)
- dimming function via DALI-2 interface, compatible with LIMAS Line wired Light Management System (**DIMD**)
- power reduction with control phase (**LR**)
- constant luminous flux function (**CL**)
- additional overvoltage protection
- for wall mounting with wall brackets

Product highlights:

- **long-lasting, corrosion-resistant** die-cast aluminium housing
- **optimized thermal management** due to direct mounting of the LED modules to the housing and separate housings for ECG- and LED-moules, huge heat sink with excellent heat dissipation
- **uniform illumination due to the „Multi-Layer Technology"**
- **high system service life of up to 100,000 h**, saves premature replacement and conserves valuable resources
- **variable electrical installation** methods due to max. 8 cable entries (see options)
- **high energy cost savings** thanks to low connected load and high efficiency
- control gear and LED-module replaceable by qualified personnel on-site
- **future proof** by using standardised LED-modules (Zhaga) and long-term availability of spare parts

Properties, limitations and details for controlling LED-light fittings:
See "Technical Supplement"

All data are correct at the time of printing. Actual technical data can be found under www.schuch.de.

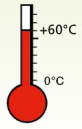
Article no.	Type	DALI controllable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *

3301...

IP65

... for ambient temperatures up to +60 °C

1 LED segment



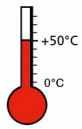
33010 0004	**3301 L110**		•				60	9,2	66	12.000	182	HME 250
33010 0006	**3301 L110B**		•									
33010 0015	**3301 L110TB**			•								
33010 0008	**3301 L110T**				•							
33010 0203	**3301 L110 DIMD**	•	•									
33010 0205	**3301 L110B DIMD**	•	•									
33010 0214	**3301 L110TB DIMD**	•		•								
33010 0207	**3301 L110T DIMD**	•			•							

3301...



33010 0005	**3301 L160**		•				60	9,2	96	17.000	177	HIT 250, HME 400
33010 0007	**3301 L160B**		•									
33010 0016	**3301 L160TB**			•								
33010 0009	**3301 L160T**				•							
33010 0204	**3301 L160 DIMD**	•	•									
33010 0206	**3301 L160B DIMD**	•	•									
33010 0215	**3301 L160TB DIMD**	•		•								
33010 0208	**3301 L160T DIMD**	•			•							

... for ambient temperatures up to +50 °C



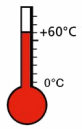
33010 0001	**3301 L210**		•				50	9,2	135	23.000	170	HIE 400
33010 0002	**3301 L210B**		•									
33010 0013	**3301 L210TB**			•								
33010 0003	**3301 L210T**				•							
33010 0014	**3301 L210TO**				•							
33010 0200	**3301 L210 DIMD**	•	•									
33010 0201	**3301 L210B DIMD**	•	•									
33010 0212	**3301 L210TB DIMD**	•		•								
33010 0202	**3301 L210T DIMD**	•			•							
33010 0213	**3301 L210TO DIMD**	•			•							

3302...

IP65

... for ambient temperatures up to +60 °C

2 LED segments



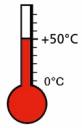
33020 0004	**3302 L220**		•				60	14,6	132	24.000	182	HIE 400
33020 0006	**3302 L220B**		•									
33020 0015	**3302 L220TB**			•								
33020 0008	**3302 L220T**				•							
33020 0203	**3302 L220 DIMD**	•	•									
33020 0205	**3302 L220B DIMD**	•	•									
33020 0214	**3302 L220TB DIMD**	•		•								
33020 0207	**3302 L220T DIMD**	•			•							

3302...



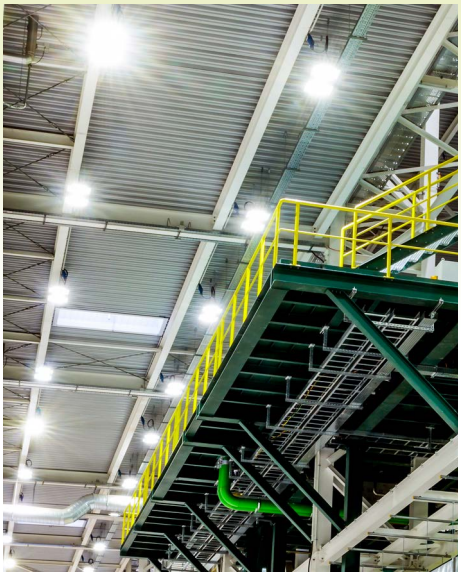
33020 0005	**3302 L320**		•				60	14,6	192	34.000	177	HIT 400
33020 0007	**3302 L320B**		•									
33020 0016	**3302 L320TB**			•								
33020 0009	**3302 L320T**				•							
33020 0204	**3302 L320 DIMD**	•	•									
33020 0206	**3302 L320B DIMD**	•	•									
33020 0215	**3302 L320TB DIMD**	•		•								
33020 0208	**3302 L320T DIMD**	•			•							

... for ambient temperatures up to +50 °C



33020 0001	**3302 L420**		•				50	14,6	270	46.000	170	2 x HIE 400
33020 0002	**3302 L420B**		•									
33020 0013	**3302 L420TB**			•								
33020 0003	**3302 L420T**				•							
33020 0014	**3302 L420TO**				•							
33020 0200	**3302 L420 DIMD**	•	•									
33020 0201	**3302 L420B DIMD**	•	•									
33020 0212	**3302 L420TB DIMD**	•		•								
33020 0202	**3302 L420T DIMD**	•			•							
33020 0213	**3302 L420TO DIMD**	•			•							

* This date is a rough guideline. In individual cases a lighting calculation is required.



3301... / 3302... VARIO

IP65

Design:
Same as type 3301... / 3302... **but:** With an integrated DIP switch for for variable adjustment of the luminous flux in the luminaire.

Product highlights of the VARIO version:

- universally usable due to variable setting of the luminous flux, depending on the requirement
- simple and quick adjustment on-site without tools
- can be changed at any time (e.g. change of use of the premises with new requirements in regard to the level of illumination)
- maximum standardization and most economical warehousing

1 LED segment

Article no.	Type	Wide beam	Narrow wide beam	Narrow beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm] 1)	Light output [lm/W]	Substitute for *
33011 0001	**3301 L210 VARIO**	•			50	9,2	77 - 135	13.600 - 23.000	177	HME 250 - HIE 400
33011 0002	**3301 L210B VARIO**	•								
33011 0003	**3301 L210TB VARIO**		•							
33011 0004	**3301 L210T VARIO**			•						

2 LED segments

Article no.	Type	Wide beam	Narrow wide beam	Narrow beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm] 1)	Light output [lm/W]	Substitute for *
33021 0001	**3302 L420 VARIO**	•			50	14,6	154 - 270	27.200 - 46.000	177	HIE 400 - 2 x HIE 400
33021 0002	**3302 L420B VARIO**	•								
33021 0003	**3302 L420TB VARIO**		•							
33021 0004	**3302 L420T VARIO**			•						

Factory setting L210: 135 W; replaces approx. HIE 400
Factory setting L420: 270 W; replaces approx. 2 x HIE 400

1) possible setting range

3301/3302... IFS

IP65

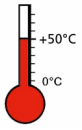
IFS Food / BRC / VDMA / HACCP
SCHUCH Light Fittings designed for food and beverage industry applications are in accordance with IFS Food / BRC / VDMA standards. They can be operated without restrictions in operations that must fulfill the HACCP Concept.

for application in food industry areas

Applications:
Production halls in the food industry, locations which come under the requirements of the IFS Food (International Featured Standard, Food), BRC or HACCP, e.g. manufacture of food packaging.

Design:
With clear PC cover instead of the flat safety glass.

... for ambient temperatures up to +50 °C



Optional also available for ambient temperatures up to +60 °C



1 LED segment

Article no.	Type	DALI controllable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
33010 0010	**3301 L210 IFS**		•				50	9,2	135	23.000	170	HIE 400
33010 0011	**3301 L210B IFS**		•									
33010 0017	**3301 L210TB IFS**			•								
33010 0012	**3301 L210T IFS**				•							
33010 0209	**3301 L210 DIMD IFS**	•	•									
33010 0210	**3301 L210B DIMD IFS**	•	•									
33010 0216	**3301 L210TB DIMD IFS**	•		•								
33010 0211	**3301 L210T DIMD IFS**	•			•							

2 LED segments

Article no.	Type	DALI controllable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
33020 0010	**3302 L420 IFS**		•				50	14,6	270	46.000	170	2 x HIE 400
33020 0011	**3302 L420B IFS**		•									
33020 0017	**3302 L420TB IFS**			•								
33020 0012	**3302 L420T IFS**				•							
33020 0209	**3302 L420 DIMD IFS**	•	•									
33020 0210	**3302 L420B DIMD IFS**	•	•									
33020 0216	**3302 L420TB DIMD IFS**	•		•								
33020 0211	**3302 L420T DIMD IFS**	•			•							

* This date is a rough guideline. In individual cases a lighting calculation is required.



3301... ER

IP65

for use in cattle and horse stables

Applications:
High stables with greater mounting heights from approx. 6 m.

Design:
With stainless steel eye bolts.
Attention: Fastening ropes, ceiling brackets and wall brackets must be made of stainless steel (on demand).

Article no.	Type	DALI controllable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
33010 0600	**3301 L210 ER**		•				50	9,2	135	23.000	170	HIE 400
33010 0602	**3301 L210B ER**		•									
33010 0603	**3301 L210TB ER**			•								



3301... LW

IP65

for use in pig stalls

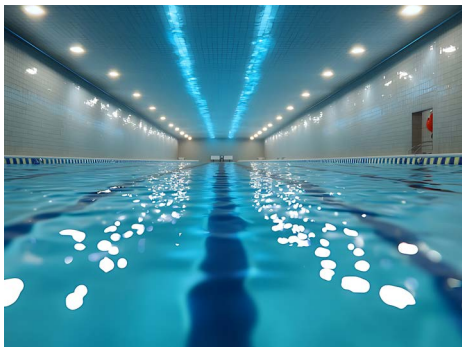
Applications:
High stables with greater mounting heights from approx. 6 m as well as environments with high pollution.

Design:
Modified for high protection against ammonia and other corrosive atmospheres or harmful gases.
Attention: Fastening ropes, ceiling brackets and wall brackets must be made of stainless steel (on demand).

Article no.	Type	DALI controllable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
33010 0800	**3301 L210 LW**		•				50	9,2	135	23.000	170	HIE 400
33010 0801	**3301 L210B LW**		•									
33010 0802	**3301 L210TB LW**			•								

Gas-tight encapsulated light sensor

Specially developed for use in environments contaminated with harmful gases, our new LL XR DS4 light sensor is ideal for animal houses contaminated with ammonia. Robustly constructed and gas-tight encapsulated, it offers outstanding durability and reliability in these demanding areas.
See catalog chapter Light management Systems / LIMAS Line.



3301... SBL

IP65

for use in Swimming pools

Applications:
Swimming pools, indoor pools and chlorinated environments

Design:
Modified for high protection against chlorinated atmospheres.

Attention: Fixing cables, ceiling brackets and wall brackets must be specially designed (on request). Other versions 3302 ... also available on request.

Article no.	Type	DALI controllable	Wide beam	Narrow wide beam	Narrow beam	Asymmetrical beam	Tmax [°C]	Weight [kg] (without packing material)	Connected load [W]	Luminous flux [lm]	Light output [lm/W]	Substitute for *
33010 0900	**3301 L210 SBL**		•				50	9,2	135	23.000	170	HIE 400
33010 0901	**3301 L210B SBL**		•									
33010 0902	**3301 L210TB SBL**			•								
33010 0903	**3301 L210A SBL**					•						

* This date is a rough guideline. In individual cases a lighting calculation is required.

Accessories / Spare Parts

Article no.	Type	
33001 9001	**ABD 3301 ESGW**	cover, safety glass pane clear (1 segment), for 3301..., 3302..., 3305...
33001 9006	**ABD 3301 PC**	cover, disc PC clear IFS (1 segment), for 3301..., 3302..., 3305...
33001 9010	**ABD 3301 C PMMA**	cover, PMMA frosted disc for glare limitation (1 segment), for 3301..., 3302..., 3305...
90313 0003	**KV M25 G BK**	plastic cable gland M25 x 1,5
90313 0004	**VSR M25 G BK**	plastic screw plug M25 x 1,5
90022 0006	**BF SAH Y 420/45 ST P**	1 pair of Y-ropes, (2-point-mounting)
33001 9002	**DBF 3301/3302**	1 pair of brackets for direct ceiling mounting [1]
33001 9013	**SD 3301/3302**	vibration absorbing suspension device [1]
[1] Version Sheet Steel painted. Optional available in stainless steel painted.		