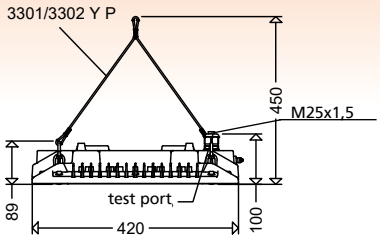


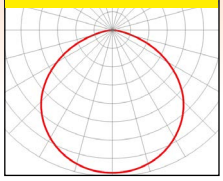
ExDUEVO
LED High Bay Fittings for Ex-Zone 2/22
Series nD8301/nD8302...

Applications:
Hazardous locations, of Zones 2 (gas) and 22 (dust), in assembling- and production halls, warehouses, in industrial sectors, workshops, chemical factories etc.

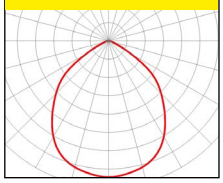
Design:
Two versions are available: 1 (nD83**01**) or 2 (nD83**02**) LED segments.
Housing: Diecast aluminum, DB 702 (mica-iron paint).
LED-segment(s) with LED modules, optics (B- and TB-types) behind tempered safety glass (IK10).
ECG segment with integrated electronic control gear, prewired on terminals.
Light distribution: Without optic wide beam, with optic wide (**B**) or narrow-wide beam (**TB**).
Connection: 5 poles up to 4 mm^2
Entries: 1 gland M25 x 1,5
Mounting material: 4 eyelets M6 (included in delivery) or see accessories/spare parts
General Purpose: Beaming downwards 0°.



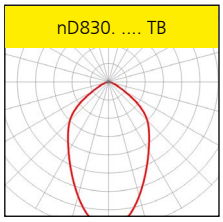
nD830. ....



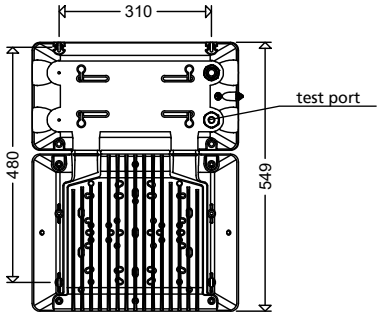
nD830. .... B



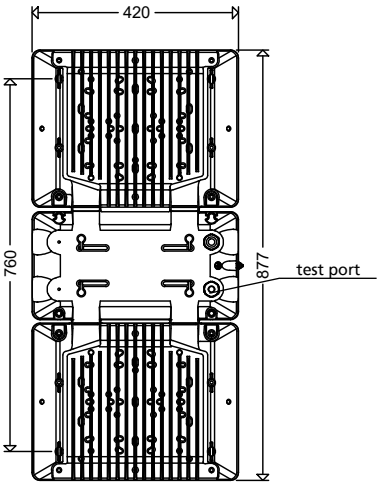
nD830. .... TB



nD8301 ...



nD8302 ...



Technical Data:
LED-module: 4,000 K, CRI > 80, service life L_{70} > 100,000 h at ambient temperature ≤ 50 °C or L_{70} > 90,000 h at ambient temperature > 50 °C, L_{80} > 100,000h at 25 °C ambient temperature, L_{80} > 60,000 h at max. ambient temperature
ECG: 220 - 240 V, 50/60 Hz. Surge voltage resistance 4 kV, overload and short circuit protection
Ambient temperature: -20 °C up to +40 °C / +50 °C / +60 °C

Options:
– narrow beam (**T**)
– with narrow oval optic (**TO**), for illumination of aisles in rack areas
– cable looping at 1 small side
– for connection to central emergency supply systems (**ZB**)
– power reduction with control phase (**LR**)
– constant luminous flux function (**CL**)
– for wall mounting with wall brackets, cannot be retrofitted

Product highlights:

- high efficient by use of top-quality mid-power LEDs
- extremely high service life even at the maximum permissible ambient temperature
- **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
- high-quality ECG with overload and short circuit protection
- **DALI interface (standard) for dimmed operation,** compatible with LIMAS Line BASIC/PRO (**DIMD**) Light Management System
- **uniform illumination due to the „Multi-Layer Technology"** i.e. every individual LED illuminates the whole surface, the light curves of the individual LED are overlapping. No dark zones if any single LED would fail. The uniformity of the illumination is kept
- **colour rendering index CRI > 80**
- **sustainable,** control gear and LED-module replaceable by qualified personnel on-site
- **future proof by using standardized LED-modules (Zhaga)**
- **GreenLine luminaire,** outstanding sustainable design



Explosion protected Light Fittings

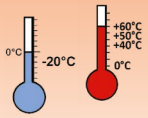
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Note:

This light fitting is not suitable for application in areas with permanent high humidity in combination with only short periods of operation, such as sewage or stormwater retention tanks or water treatment plants.

nD8301/nD8302...

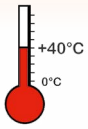
II 3 G Ex nR IIC T4 Gc | II 3 D Ex tc IIIC T100°C Dc | IP65



Ignition protection: nR
Marking:
II 3 G Ex nR IIC T4 Gc (Zone 2)
II 3 D Ex tc IIIC T100°C Dc (Zone 22)

Rated voltage: 220 V - 240 V, 50/60 Hz
Permissible ambient temperature:
-20 °C up to +40 °C / +50 °C / +60 °C

... for ambient temperatures up to +40 °C



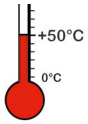
1 LED segment

Article no.	Type	Connected load [W]	Luminous flux [lm]	Luminous efficacy [lm/W]	T max [°C]	Wide beam	Narrow-wide beam	Substitute for *	Weight [kg] (without packing material)
83010 0001	**nD8301 L110**	67	10.800	161	40	•			8,9
83010 0002	**nD8301 L160**	96	15.000	156	40	•			8,9
83010 0003	**nD8301 L210**	135	20.200	150	40	•			8,9
83010 0004	**nD8301 L110B**	67	10.800	161	40	•			9,2
83010 0005	**nD8301 L160B**	96	15.000	156	40	•			9,2
83010 0006	**nD8301 L210B**	135	20.200	150	40	•			9,2
83010 0007	**nD8301 L110TB**	67	10.800	161	40		•		9,2
83010 0008	**nD8301 L160TB**	96	15.000	156	40		•		9,2
83010 0009	**nD8301 L210TB**	135	20.200	150	40		•		9,2

2 LED segments

83020 0002	**nD8302 L320**	192	30.000	156	40	•			14,5
83020 0003	**nD8302 L420**	270	40.400	150	40	•			14,5
83020 0005	**nD8302 L320B**	192	30.000	156	40	•			14,6
83020 0006	**nD8302 L420B**	270	40.400	150	40	•			14,6
83020 0008	**nD8302 L320TB**	192	30.000	156	40		•		14,6
83020 0009	**nD8302 L420TB**	270	40.400	150	40		•		14,6

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



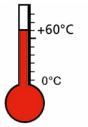
1 LED segment

83010 0101	**nD8301 L110 H50**	67	10.800	161	50	•			8,9
83010 0102	**nD8301 L160 H50**	96	15.000	156	50	•			8,9
83010 0104	**nD8301 L110B H50**	67	10.800	161	50	•			9,2
83010 0105	**nD8301 L160B H50**	96	15.000	156	50	•			9,2
83010 0107	**nD8301 L110TB H50**	67	10.800	161	50		•		9,2
83010 0108	**nD8301 L160TB H50**	96	15.000	156	50		•		9,2

2 LED segments

83020 0101	**nD8302 L220 H50**	134	21.600	161	50	•			14,5
83020 0102	**nD8302 L320 H50**	192	30.000	156	50	•			14,5
83020 0104	**nD8302 L220B H50**	134	21.600	161	50	•			14,6
83020 0105	**nD8302 L320B H50**	192	30.000	156	50	•			14,6
83020 0107	**nD8302 L220TB H50**	134	21.600	161	50		•		14,6
83020 0108	**nD8302 L320TB H50**	192	30.000	156	50		•		14,6

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



1 LED segment

83010 0201	**nD8301 L110 H60**	67	10.800	161	60	•			8,9
83010 0202	**nD8301 L160 H60**	96	15.000	156	60	•			8,9
83010 0204	**nD8301 L110B H60**	67	10.800	161	60	•			9,2
83010 0207	**nD8301 L110TB H60**	67	10.800	161	60		•		9,2

2 LED segments

83020 0201	**nD8302 L220 H60**	134	21.600	161	60	•			14,5
83020 0202	**nD8302 L320 H60**	192	30.000	156	60	•			14,5
83020 0204	**nD8302 L220B H60**	134	21.600	161	60	•			14,6
83020 0207	**nD8302 L220TB H60**	134	21.600	161	60	•			14,6

Accessories / Spare Parts

Article no.	Type	
90117 9006	**2537 G**	ex-protected plastic cable gland M25 x 1,5 with nut
90119 9001	**2539 G**	ex-protected plastic cable gland M25 x 1,5 with nut and plug
33001 9004	**3301/3302 Y P**	1 pair of Y-ropes, (2-point-mounting)
33001 9002	**DBF 3301/3302**	1 pair of angle brackets for direct ceiling mounting

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