

LED High Bay Floodlight Series 3301/3302...

DESIGN

Two versions are available: 1 or 2 LED wings for substitution of 250W / 400W high pressure discharge lamps

Housing: Die-cast aluminum, DB 702N (mica-iron paint). LED-housing with LED modules, optics behind tempered safety glass (IK08). ECG housing with integrated electronic control gear, prewired on terminals.

Optics: Without optics wide beam, with optics narrow-wide (TB) or narrow-beam (T), respectively oval optics (TO) for illumination of aisles in rack areas.

Entries: 1 gland and 1 blind plug M25 x 1,5.

Mounting: see Accessories.

FEATURES AND BENEFITS:

- high system lifetime even at max. ambient temperature.
- high quality ECG with overvoltage, overload, short-circuit and excess temperature protection
- optimized thermo management due to direct mounting of the LED modules to the housing and separate housings for ECG- and LED-modules, huge heat sink with excellent heat dissipation
- temperature monitoring of the LED-modules by the ECG (versions 330. L... and BASIC excluded)
- 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
- variable electrical installation methods due to max. 8 cable entries (see options).

APPLICATIONS:

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

TECHNICAL DATA:

LED: Highpower-LED 4,000K, CRI > 80, life cycle Types ... 03 L80 =60.000h, Types ... 02 L80 =80.000h, Types ... 01 L80 =100.000h at max. ambient temperature (see notes).
Version 330. L ...: Mid-Power-LED 4,000K, CRI > 80, life cycle L70B10 > 50.000h at max. ambient temperature (see notes).

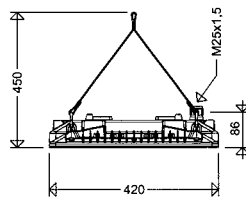
ECG: 220-240V, 50-60Hz. Due to the inrush current of the electronic ballasts, the maximum permissible number of light fittings per circuit breaker is limited. Overvoltage protection 4kV, excess temperature protection-, overload and short circuit protection, temperature monitoring of the LED modules (types 330. L... and BASIC excluded).

DALI-interface for dim light operation (BASIC versions excluded)

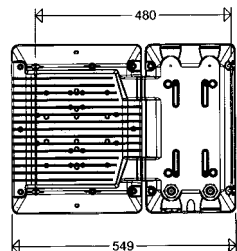
Ambient temperature: -40°C up to +40°C / +50°C / +60°C (see article tables)
BASIC-Versions -20°C up to see article tables.

OPTIONS:

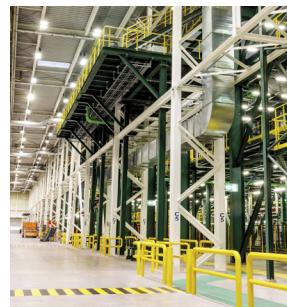
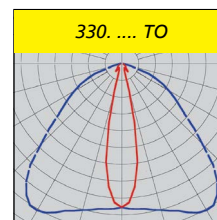
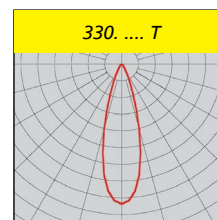
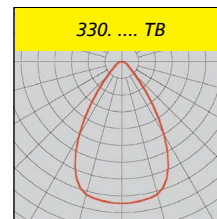
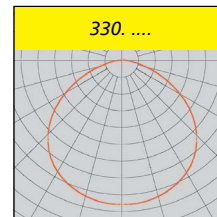
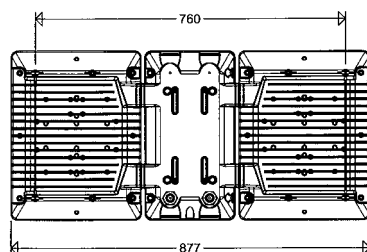
- 5,700K (CRI > 70)
- without DALI-interface (type BASIC)
- dimmable version 1-10V interface (DIMA) for analog components
- dimmable version „Corridor Mode“ (DIMC)
- light output reduction (LR) per 230V control line (dimmable)
- uniform luminous flux option (CL) to keep the light output on same level for the whole life cycle
- asymmetrical optics (A)
- PMMA cover frosted (F) for glare limitation
- version with additional borings for wall mounting by means of angle brackets (swivel range 0° - 45°)
- „D“-marking for rooms with higher fire risk
- ball sports proof version
- for connection to group or central battery systems (ZB)
- integrated monitoring module for monitoring the individual light fitting
- 3/5-pole connecting (plug and play) plug for electrical connection without accessing the internal terminal block



3301...



3302...



Article no.	Type	Power consumption [W] **	Luminous flux [lm] **	Light output [lm/W]	Wide beam	Narrow-wide beam	Narrow beam	Energy efficiency class	Substitute for *	Weight [kg] (without packing material)
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3301/3302...



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

1 LED wing

33000 0005	3301 L115	100	12.270	123	•			A++	HME 250	8,8
33000 0003	3301 6403	135	14.460	107	•			A+	HIT 250/HME 400	9,2
33000 0004	3301 6403TB	135	14.250	106		•		A+	HIT 250/HME 400	9,2
33000 0006	3301 6403T	135	15.380	114			•	A+	HIE 400	8,5
33000 0011	3301 6403TO	135	14.560	108			•	A+	HIE 400	9,2

2 LED wings

33000 0105	3302 L230	200	24.540	123	•			A++	HIT 400	13,0
33000 0103	3302 12803	270	28.910	107	•			A+	HIT 400	14,4
33000 0104	3302 12803TB	270	28.510	106		•		A+	HIT 400	14,4
33000 0106	3302 12803T	270	30.750	114			•	A+	HIT 400	14,0
33000 0111	3302 12803TO	270	29.120	108			•	A+	HIT 400	14,4

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

1 LED wing

33000 0256	3301 L115 H50	100	12.270	123	•			A++	HME 250	8,2
33000 0201	3301 6403 H50	135	14.460	107	•			A+	HIT 250/HME 400	8,4
33000 0202	3301 6402TB H50	96	10.760	112		•		A++	HME 250	8,5
33000 0204	3301 6402T H50	96	11.630	121			•	A++	HME 250	8,5

2 LED wings

33000 0257	3302 L230 H50	200	24.540	123	•			A++	HIT 400	13,6
33000 0251	3302 12803 H50	270	28.910	107	•			A+	HIT 400	13,8
33000 0252	3302 12802TB H50	192	21.520	112		•		A++	HIE 400	14,0
33000 0254	3302 12802T H50	192	23.260	121			•	A++	HIT 400	14,0

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

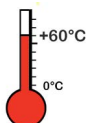
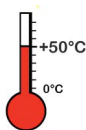
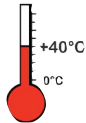
1 LED wing

33000 0266	3301 L115 H60	100	12.270	123	•			A++	HME 250	8,2
33000 0211	3301 6402 H60	96	10.870	113	•			A++	HME 250	8,4
33000 0212	3301 6401TB H60	67	7.860	117		•		A++	-	8,5
33000 0214	3301 6401T H60	67	8.510	127			•	A++	HME 250	8,5

2 LED wings

33000 0267	3302 L230 H60	200	24.540	123	•			A++	HIT 400	13,6
33000 0261	3302 12802 H60	192	21.740	113	•			A++	HIE 400	13,8
33000 0262	3302 12801TB H60	134	15.710	117		•		A++	HIT 250/HME 400	14,0
33000 0263	3302 12801T H60	134	17.020	127			•	A++	HIE 400	14,0

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



Article no.	Type	Power consumption [W] **	Luminous flux [lm] **	Light output [lm/W]	Wide beam	Narrow-wide beam	Narrow beam	Energy efficiency class	Substitute for *	Weight [kg] (without packing material)
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3301/3302... IFS



for applications in food industry areas

Applications:

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

Design:

Same as the standard version but with clear PC cover instead of the flat safety glass.

Also available for ambient temperatures up to +60°C

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

1 LED wing

33000 0045	3301 L115 IFS	100	12.110	121	•			A++	HME 250	7,4
33000 0043	3301 6403 IFS	135	14.650	109	•			A+	HIT 250/HME 400	8,1
33000 0044	3301 6403TB IFS	135	14.450	107		•		A+	HIT 250/HME 400	8,1
NEW 33000 0046	3301 6403T IFS	135	15.580	115			•	A+	HIE 400	7,0

2 LED wings

33000 0185	3302 L230 IFS	200	24.210	121	•			A++	HIT 400	10,8
33000 0143	3302 12803 IFS	270	29.300	109	•			A+	HIT 400	12,2
33000 0144	3302 12803TB IFS	270	28.910	107		•		A+	HIT 400	12,2
NEW 33000 0146	3302 12803T IFS	270	31.160	115			•	A+	HIT 400	12,6

3301/3302... BASIC



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

Design:

Like standard versions, but without DALI-interface.

Also available for ambient temperatures up to +60°C and as IFS-Versions.

1 LED wing

33000 0007	3301 L115 BASIC	100	12.270	123	•			A++	HME 250	8,1
33000 0008	3301 6403 BASIC	135	14.460	107	•			A+	HIT 250/HME 400	8,3
33000 0009	3301 6403TB BASIC	135	14.250	106		•		A+	HIT 250/HME 400	8,4
33000 0010	3301 6403T BASIC	135	15.380	114			•	A+	HIE 400	8,4
33000 0012	3301 6403TO BASIC	135	14.560	108			•	A+	HIE 400	9,2

2 LED wings

33000 0107	3302 L230 BASIC	200	24.540	123	•			A++	HIT 400	13,4
33000 0108	3302 12803 BASIC	270	28.910	107	•			A+	HIT 400	13,6
33000 0109	3302 12803TB BASIC	270	28.510	106		•		A+	HIT 400	13,8
33000 0110	3302 12803T BASIC	270	30.750	114			•	A+	HIT 400	13,8
33000 0112	3302 12803TO BASIC	270	29.120	108			•	A+	HIT 400	14,4

Accessories / Spare Parts

Type	Article no.	
33001 9001	3301/010	spare safety glass, for BR 3301... or 3302...
33001 9006	3301/010 IFS	PC cover for use in the food industry (IFS)
33001 9010	3301/010 F	PMMA-cover, frosted for glare limitation
25600 9000	2560	plastic gland M25x1,5
25720 9000	2572	plastic plug M25x1,5
33001 9004	3301/3302 YP	1 pair of Y-ropes, (2-point-mounting)
33001 9002	3301/3302 D	1 pair of angle brackets for direct ceiling mounting
33001 9008	3301 D BS	1 pair of ceiling mountings, ball sports proof for series 3301... ¹⁾
33001 9009	3302 D BS	1 pair of ceiling mountings, ball sports proof for series 3302... ¹⁾
33001 9003	3301 W	1 angle bracket, adjustable, for wall mounting series 3301... ¹⁾
33001 9007	3302 W	1 angle bracket, adjustable, for wall mounting series 3301... ¹⁾

¹⁾ For mounting these brackets additional mounting holes are required on the luminaire. Please indicate way of mounting when ordering the luminaire.

