

## Product summary METOLIGHT® LED-Highbay Lights

The METOLIGHT LED high bay luminaires of the HBL-S1 and HBL-S2 series are equipped without exception with high-quality components and sophisticated electronics, so that these luminaires can be used even under heavy use in industrial operations (e.g. 24-hour continuous operation).

Unlike many similar looking LED high bay lights, the METOLIGHT® HBL-S have the following decisive technical advantages:

- LED circuit board based on aluminum-ceramic with direct thermal contact to the Cu heat pipe
- Individually fused LEDs, if one LED fails, all of them light up other more
- Easily exchangeable components (LED circuit board, power supply unit, housing parts)
- MEANWELL quality power supply units, voltage and temperature controlled, IP65, Pf> 0.95
- Integrated heat sensors reduce the luminosity when the light is overheated
- Safety glass, impact resistant (at HBS2 series, IP65)
- Structured high-gloss aluminum reflector, low-glare (<UGR19 @ x 4H / y 8H), 350 mm diameter
- Philips Lumileds 3030 LED chips with over 130 lm / W and CRI> 80, energy class C
- Operating range: -30 ° VC to + 60 ° C - 20-90% rH
- Light colors: 3000K / 4000K / 6000K
- Light retention> 85% (5000h)
- Light angle: 25 °, 45 °, 60 ° (standard), 90 °, 120 °
- Outputs: 80 W / 100 W / 130 W / 150 W / 200 W / 240 W replace HQI lights up to over 400 watts
- Easy to install using a ring eye or a metal bracket that can be fixed in place
- Optionally dimmable (0-10 VDC)

### Series LED-HBL-S1 - 80 ~ 240 Watt, Single-SMD, Mounting via chain or hook, IP44



HBL-S-80W  
HBL-S-100W



HBL-S-130W  
HBL-S-150W



HBL-S-200W  
HBL-S-240W

### Series LED-HBL-S2 - 80 ~ 240 Watt, Single-SMD, Mounting via bracket or hook, tempered glass, IP65



HBL-S2-80W  
HBL-S2-100W

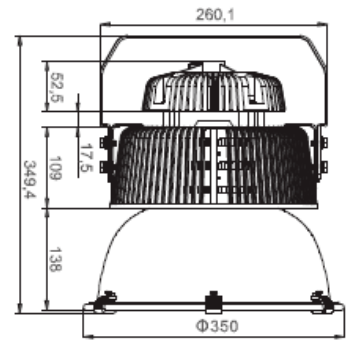
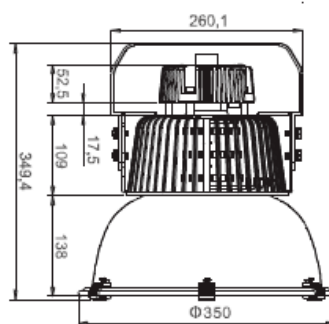
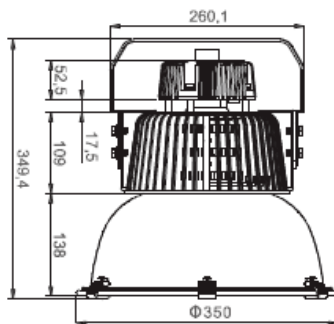


HBL-S2-130W  
HBL-S2-150W



HBL-S2-200W  
HBL-S2-240W

## Sizes



## Common technical data:

Input Voltage	100-255 VAC - 50/60 Hz	LED-Chips	Philips Lumileds 3030
Power factor	Pf > 0.95	CRI	Ra > 80
Efficacy (typ)	$\eta > 0,85$	Efficacy	> 140 lm/W
Environent	-30 ~ +60°C, 20 ~ 90% rH	Light	> 85% / 5000h
Storage	-30 ~ +80°C, 20 ~ 90% rH	LED-life (typ)	50.000h / 25 °C Basis
Standards	CE, UL, DLC, RoHS, TUV	Beam angles	45° / 60° / 90° / 120°
Sizes	350 x 415 mm (d x h)	Weight	ca.4,5 kg
Energy class	C	Photobiol. class	1
Warranty	5 years		

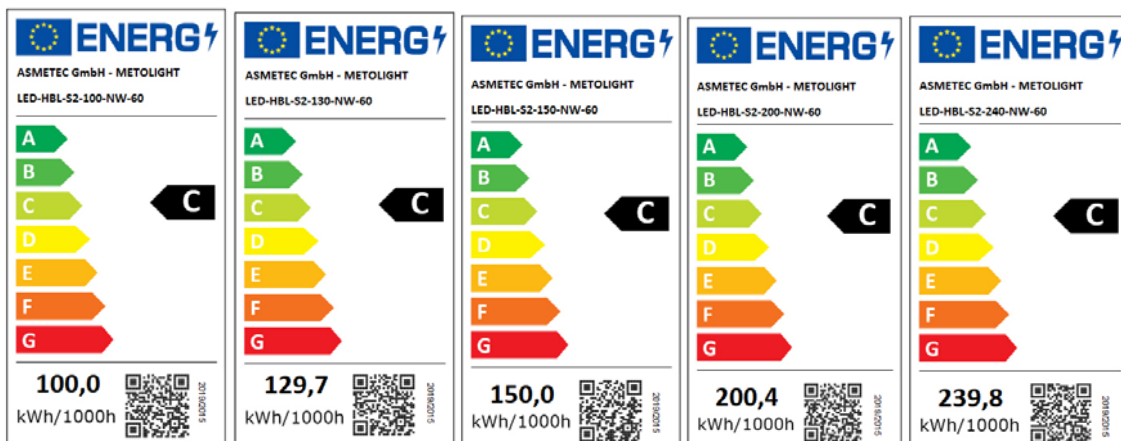
## Special technical data:

IP44	HBL-S1-080	HBL-S1-100	HBL-S1-130	HBL-S1-150	HBL-S1-200	HBL-S1-240
Power LED	80W	100 W	130 W	150W	200W	240W
Power tot	85W	105 W	135 W	155 W	205W	245 W
Qtyl LEDs	150	180	240	270	360	405
Lumen (CW)	11500 lm	14000 lm	18500	21500	28000	34000
LED-volatge	40-48 VDC	40-48 VDC	40-48 VDC	40-48 VDC	40-48VDC	40-48 VDC
LED-current	1,5 A	2,0 A	2,65 A	3,25 A	4,15 A	5 A
Meanwell driver	HBG-100-48A		HGB-150-48A		HGB-240-48A	

IP65	HBL-S2-080	HBL-S2-100	HBL-S2-130	HBL-S2-150	HBL-S2-200	HBL-S2-240
Power LED	80W	100 W	130 W	150W	200W	240W
Power tot	85W	105 W	135 W	155 W	205W	245 W
Qtyl LEDs	150	180	240	270	360	405
Lumen (CW)	11500 lm	14000 lm	18500	21500	28000	34000
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Meanwell driver	HBG-100-48A		HGB-150-48A		HGB-240-48A	



Energielabel - Beispiele



## CE-Konformität CE-conformity

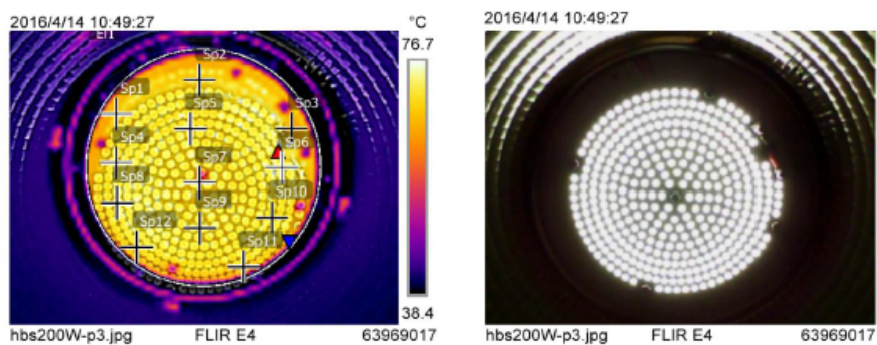
Dieser Artikel fällt unter die EU-Verordnung  
This item is under EC-regulation:  
1194/2012.  
Er erfüllt die Richtlinien  
it fulfils these rules:

ErP 2009/125/EU  
NRS/LVD 2014/35/EU  
EMV/EMC 2014/30/EU  
RoHS 2011/65/EU  
WEEE - 2012/19/EU

Asmetec - WEEE  
DE74399040

Heat image:

## Heat radiation test report



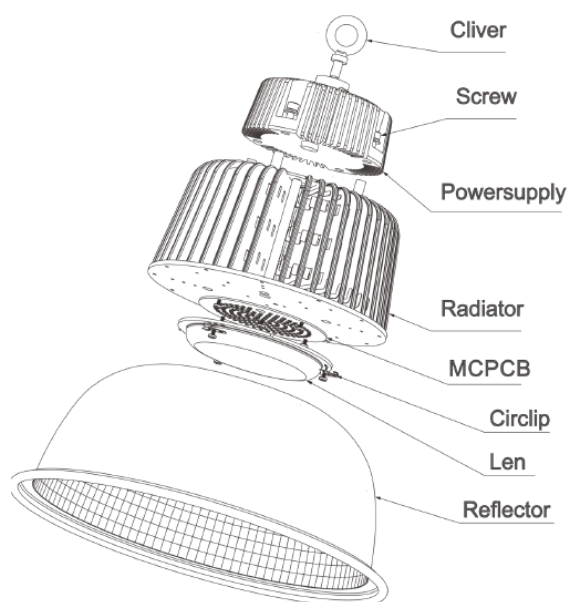
## Measurements

Measurement		T ( °C )	mark
E11	Max	78.5	
	Min	37.1	
	Average	68.5	
Sp1		72.1	PCB
Sp2		71.3	PCB
Sp3		66.8	PCB
Sp4		71.3	Light source
Sp5		71.0	Light source
Sp6		74.9	Light source
Sp7		67.6	PCB
Sp8		71.5	Light source
Sp9		69.9	Light source
Sp10		70.2	Light source
Sp11		68.0	Light source
Sp12		70.8	Light source

### Parameters

Emissivity	0.95
Refl. temp.	20 °C
Distance	1 m
Atmospheric temp.	30 °C
Ext. optics temp.	30 °C
Ext. optics trans.	1
Relative humidity	50 %

**System construction:**



## Installation

The electrical installation may only be carried out by a qualified electrician, taking into account the general safety regulations for dealing with electricity.

Depending on the version of the highbay luminaire, it has one cable, 3-core or, in the dimmable version, 2 cables (1 x 3-core, 1 x 2-core)

The 3-core cable is for connecting the light to the mains.

The connection voltage can be in the range of 100-255 VAC - 50/650 Hz, typically 230 VAC - 50 Hz.

Wire coding:

Green-yellow -> grounding

Brown -> L

Blue -> N



The dimmable version has an additional 2-pole cable (purple / gray)



A 0-10 V dimmer or a daylight sensor (e.g. Asmetec article 100581) can be connected to this cable.

With the 0-10 VDC control, the light can be set in the range between 0 and 100% in brightness. If the two cables are not connected, the highbay lamp lights up at 100%, if the two cables are short-circuited, the lamp is at 0%. and be insulated, for example, with insulating tape or, better still, shrink tubing.

The above statements are based on our present knowledge. Our statements should not be interpreted as a guarantee of characteristics. The use of our products by our customers is subject to different conditions, therefore none of our customers are relieved of the responsibility of testing our products by themselves. A liability for consequential damage will not be accepted in any case. For damage resulting from the use of this information we can only be held responsible if there is evidence of malice or negligence on our part. This data-sheet replaces any previous data sheets.

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LED-HBL-S-SUM-DB-E.DOC, VERSION SEP-21