PHILIPS

GreenPerform LED
Highbay Gen2

80 – 230W

Energy-efficient lighting
for industrial and commercial spaces

Looking for an energy-efficient replacement for 400W HID Highbays? The advanced GreenPerform LED Highbay lighting system provides **simple point-to-point replacement** for up to 400W HID Highbays. The unique flat design gives you the flexibility to install by hook, pendant or bracket. The long lifetime of 50,000 hours at L70 means it is a low maintenance solution.

The GreenPerform LED Highbay provides high-performance lighting and is rated IP65 so is perfect for a variety of industrial/warehousing applications and large format retail stores. There are three beam shapes to choose from. The high-rack optics illuminate vertical planes with exceptionally high accuracy.

The flexible, efficient lighting system

Choice of three mounting options

Hook (Suspension)

Pendant (Pipe)

Bracket

Choice of three beams to suit your requirements
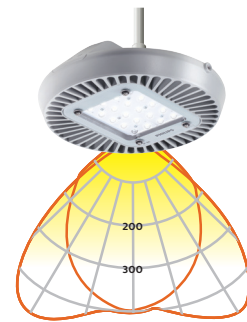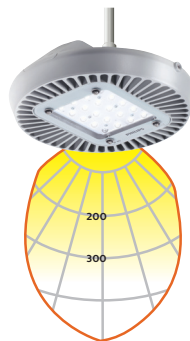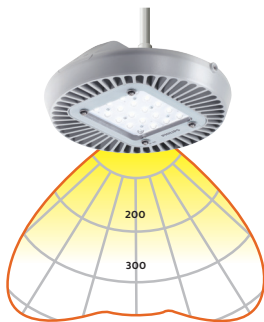
Wide beam

- Wide delta-shaped
- Rotational symmetric
- For large open halls
- Ideal distribution for general, open areas

Narrow beam

- Narrow delta-shaped
- Rotational symmetric
- For large open halls with ceiling height of >20m
- Concentrates light downward for higher mounting

HRO beam

- Narrow and wide
- Bi-symmetric
- For high rack/aisle
- Lights the floor and vertical racks of aisles

Benefits

- Energy savings of up to 50% compared to Philips HDK108 400W high bays.
- Flexible. Choice of hook, pendant or bracket mount, with multiple beam options.
- Can be installed in applications with ambient temperatures down to -30°C.
- Able to be used in areas where food is stored or manufactured.
- Long lifetime up to 50,000 hours at L70.
- Comfortable light with low glare.

Features

- Further energy savings are possible with the optional control option with daylight harvesting and presence detection.
- Unique flat design for various mounting options.
- Wide beam, Narrow beam and High rack optic distributions.
- IP65 rated.
- Polycarbonate lens option.
- Durable. Solid die-cast housing ensures long fixture lifetime.

Applications

- General industry.
- High rack warehouses.
- Cool stores.
- Food areas.
- Large format retail stores.

Product data

Product family	**BY687P**	**BY688P**	**BY689P**
System power	230W/200W	145W/130W	90W/80W
System output	27,500lm/24,000lm	17,200lm/15,600lm	11,000lm/9,600lm
System efficacy	>120lm/W	>120lm/W	>120lm/W
CCT	NW (4000K)	NW (4000K)	NW (4000K)
	CW (6500K)	CW (6500K)	CW (6500K)
CRI	85	85	85
SDCM	SDCM<5	SDCM<5	SDCM<5
Optical	WB	WB	WB
	NB	NB	NB
	HRO	HRO	HRO
IP rating	IP65/IK07	IP65/IK07	IP65/IK07
Materials	Body: High-quality die-cast aluminum	Body: High-quality die-cast aluminum	Body: High-quality die-cast aluminum
	Seal: Heat-proof silicone rubber ring	Seal: Heat-proof silicone rubber ring	Seal: Heat-proof silicone rubber ring
	Lens: PMMA	Lens: PMMA	Lens: PMMA
	Cover: High transmittance tempered glass (Polycarbonate cover for food preparation areas available on request)	Cover: High transmittance tempered glass (Polycarbonate cover for food preparation areas available on request)	Cover: High transmittance tempered glass (Polycarbonate cover for food preparation areas available on request)
Lifetime	50,000 hrs (L70)	50,000 hrs (L70)	50,000 hrs (L70)
Colour	Silvery grey	Silvery grey	Silvery grey
Dimension	520x530x165	457x466x158	366x374x153
Weight	9.5kg	7kg	5kg
Control	1-10V	Fixed/Dali/1-10V	Fixed/Dali/1-10V
Driver	Philips Xitanium LED driver	Philips Xitanium LED driver	Philips Xitanium LED driver
Input voltage	220-240V, 50/60Hz	220-240V, 50/60Hz	220-240V, 50/60Hz
Power factor	>0.95	>0.95	>0.95
Ta	-30˚C – +40˚C	-30˚C – 40˚C	-30˚C – +40˚C
Mounting	Hook/Pole/Bracket	Hook/Pole/Bracket	Hook/Pole/Bracket

Dimensions (mm)

Model	W (mm)	H (mm)
BY698P (Small)	366	153
BY689P (Medium)	457	158
BY6878P (Large)	520	165

Product codes

Small

BY689P LED90/NW PSU S-NB

BY689P LED90/NW PSU S-WB

BY689P LED100 L3000/NW PSU S-NB

BY689P LED100 L3000/NW PSU S-WB

BY689P LED100 L3000/NW PSU S-HRO

BY689P LED100 L3000/NW PSU S-WB PC

BY689P LED100 L3000/NW PSU S-NB PC

BY689P LED100 L3000/NW PSU S-HRO PC

Medium

BY688P LED140/NW PSU S-NB

BY688P LED140/NW PSU S-WB

BY688P LED 140/NW PSR S-NB

BY688P LED 140/NW PSR S-WB

BY688P LED 140/NW PSD S-NB

BY688P LED 140/NW PSD S-WB

BY688P LED160 L3000/NW PSU S-HRO

BY688P LED160 L3000/NW PSU S-NB

BY688P LED160 L3000/NW PSU S-WB

BY688P LED160 L3000/NW PSU S-WB PC

BY688P LED160 L3000/NW PSU S-NB PC

BY688P LED160 L3000/NW PSU S-HRO PC

Large

BY687P LED200/NW PSR S-WB L3000

BY687P LED200/NW PSR S-NB L3000

BY687P LED200/NW PSR S-HRO L3000

BY687P LED200 L3000/NW PSR S-WB PC

BY687P LED200 L3000/NW PSR S-NB PC

BY687P LED200 L3000/NW PSR S-HRO PC

BY687P LED240/NW PSR S-WB L3000

BY687P LED240/NW PSR S-NB L3000

BY687P LED240/NW PSR S-HRO L3000

BY687P LED240 L3000/NW PSR S-NB PC

BY687P LED240 L3000/NW PSR S-HRO PC

BY687P LED240 L3000/NW PSR S-WB PC

Accessories

BY619Z Horizontal Bracket (BY689)

BY619Z MB Wall Bracket (BY689)

BY618Z Horizontal Bracket (BY688)

BY618Z MB Wall Bracket (BY688)

BY617Z MB Wall Bracket (BY689)

PSU (Fited output driver)

PSR (1-10V Driver)

PSD (Dali driver)

Other options available on request