



# Philips CoreLine Highbay Gen6: Excellent illumination. Easy installation.

## CoreLine Highbay Gen6

Philips CoreLine Highbay Gen6 delivers on the CoreLine promise of innovative, easy-to-use and high-quality lighting. With a redefined and appealing elegance, CoreLine Highbay Gen6 is a reliable, highly efficient luminaire with a very long lifetime. It delivers flicker-free lighting and great energy savings, and requires less maintenance than comparable luminaires. CoreLine Highbay Gen6 is also very easy to handle. The luminaire can be installed on your existing grid. Electrical connections are straightforward, with an external IP65 connector that does not require you to open the luminaire. With a choice of narrow and wide beam angles, you can adjust your lighting plan to suit your exact needs. The CoreLine Highbay Gen6 range includes Interact Ready luminaires. With integrated wireless communications and integrated movement and daylight sensors, CoreLine Highbay Gen6 is ready for use with any Interact connected lighting system.

### Benefits

- Saves energy with UltraEfficient options
- Easy installation in extensive applications - single suspension hook and external connector, additional mounting bracket for more flexibility
- Ideal for general application projects, with robust design and a high water and dust protection ratings (IP66 and IP65)

# CoreLine Highbay Gen6

## Features

- Long lifetime of 100,000 hours at L70
- High efficiency: Standard versions to 183 lm/W, UltraEfficient versions up to 196 lm/W
- Choice of narrow and wide beam options
- Low glare without the need for additional accessories
- Appealing and sustainable design with high-quality, high-durability die-cast aluminium housing
- Single-point mounting and pre-mounted external IP65-rated electrical connector
- Optional versions: DALI dimming, integrated wireless connectivity (Interact Ready)

## Application

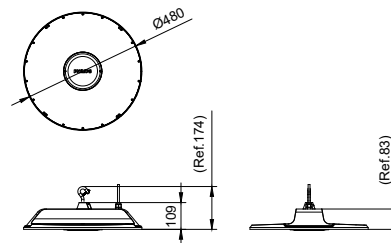
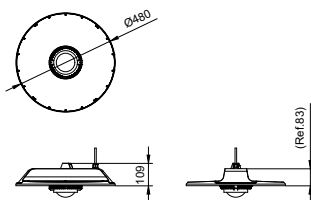
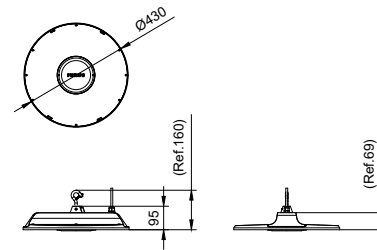
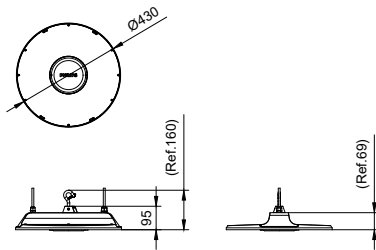
- Manufacturing
- Warehouses

## Versions

Standard product photo, CoreLine  
highbay gen6, BY120P

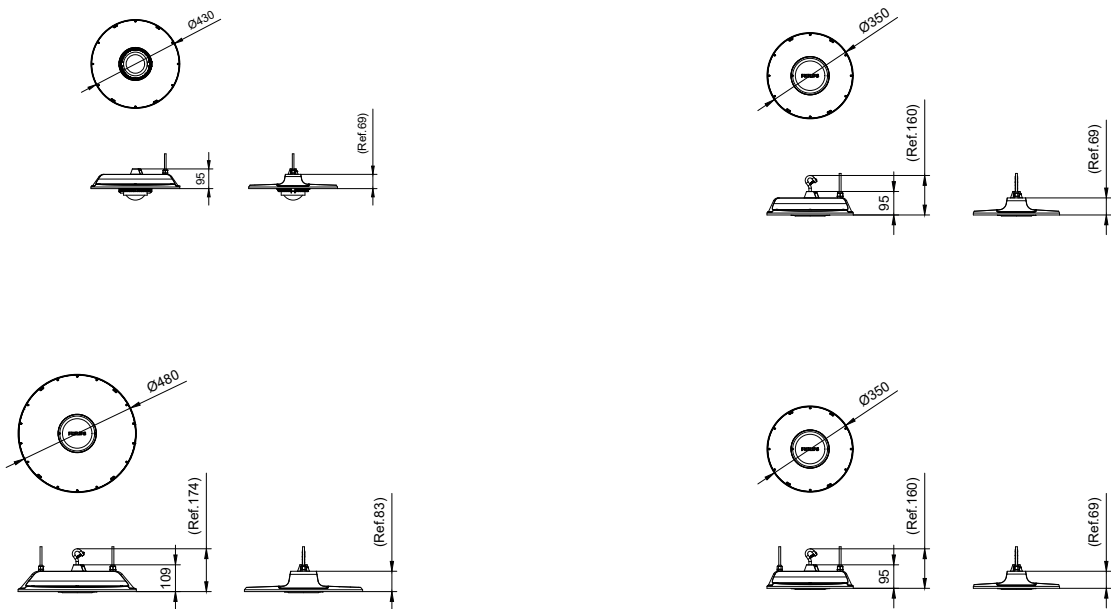


## Dimensional drawing



# CoreLine Highbay Gen6

## Dimensional drawing



## Product details



Detail photo, side, CoreLine highbay gen6, BY120X/BY121X/BY122X



Detail photo, side, CoreLine highbay gen6, BY122P



Detail photo, side, CoreLine highbay gen6, BY120P/BY121P



Detail photo, back, CoreLine highbay gen6, BY120P/BY121P/BY122P PSD

# CoreLine Highbay Gen6

## Product details



Detail photo, front, CoreLine  
highbay gen6, BY120X/BY121X/  
BY122X



Detail photo, front, CoreLine  
highbay gen6, BY121P



Detail photo, front, CoreLine  
highbay gen6, BY122P



Detail photo, front, CoreLine  
highbay gen6, BY120P



Detail photo, back, CoreLine  
highbay gen6, BY120/BY121-PSU,  
SIA



Detail photo, back, CoreLine  
highbay gen6, BY122P PSU,  
BY122X

CoreLine Highbay Gen6

General Information	
Driver included	Yes
Light Technical	
Beam angle of light source	120 degree(s)
Correlated Colour Temperature (Nom)	4000 K
Colour rendering index (CRI)	≥80
Operating and Electrical	
Protection class IEC	Safety class I
Line Frequency	50 to 60 Hz
Suitable for random switching	Yes
Controls and Dimming	
Embedded control	-
Mechanical and Housing	
Explosion hazard class	-
Housing Colour	Grey
Emergency Operation	
Central Emergency	No
Approval and Application	
CE mark	Yes
ENEC mark	ENEC mark
Flammability mark	-
Glow-wire test	Temperature 650 °C, duration 30 s
Flickering value (PstLM)	0.5
Stroboscopic effect	0.4
Initial Performance (IEC Compliant)	
Initial chromaticity	(0.3818,0.3797) SDCM < 5
Luminous flux tolerance	+/-10%

General Information

Order Code	Full Product Name	Number of gear units
30636400	BY120P G6 LED100/UE840 PSU WB	Unit
30650000	BY120P G6 LED100/840 PSD WB	Unit
30641800	BY120P G6 LED200/UE840 PSU NB	Unit
30655500	BY120P G6 LED200/840 PSD NB	Unit
30640100	BY120P G6 LED200/UE840 PSU WB	Unit
30654800	BY120P G6 LED200/840 PSD WB	Unit
30658600	BY122P G6 LED350/840 PSD WB	2 units
30661600	BY122P G6 LED400/840 PSD NB	2 units
30648700	BY122P G6 LED400/UE840 PSU WB	Unit
30660900	BY122P G6 LED400/840 PSD WB	2 units
30677700	BY121X G6 LED280/840 SIA NB H4	Unit
30676000	BY121X G6 LED280/840 SIA WB H4	Unit
30673900	BY122X G6 LED400/840 SIA NB H4	2 units
30672200	BY122X G6 LED400/840 SIA WB H4	2 units
30674600	BY121P G6 LED280/840 PSD NB	Unit
30675300	BY121P G6 LED280/840 PSD WB	Unit
30645600	BY121P G6 LED300/UE840 PSU NB	Unit
30644900	BY121P G6 LED300/UE840 PSU WB	Unit

Light Technical

		Luminous efficacy (rated)	Luminous				Luminous efficacy (rated)	Luminous	
Order Code	Full Product Name	(nom.)	Flux	Optic type	Order Code	Full Product Name	(nom.)	Flux	Optic type
30636400	BY120P G6 LED100/UE840 PSU WB	196 lm/W	10,000 lm	Beam angle 90°	30654800	BY120P G6 LED200/840 PSD WB	182 lm/W	20,000 lm	Beam angle 90°
30650000	BY120P G6 LED100/840 PSD WB	182 lm/W	10,000 lm	Beam angle 90°	30658600	BY122P G6 LED350/840 PSD WB	179 lm/W	35,000 lm	Beam angle 90°
30641800	BY120P G6 LED200/UE840 PSU NB	190 lm/W	20,000 lm	Beam angle 55°	30661600	BY122P G6 LED400/840 PSD NB	180 lm/W	40,000 lm	Beam angle 55°
30655500	BY120P G6 LED200/840 PSD NB	182 lm/W	20,000 lm	Beam angle 55°	30648700	BY122P G6 LED400/UE840 PSU WB	190 lm/W	40,000 lm	Beam angle 90°
30640100	BY120P G6 LED200/UE840 PSU WB	190 lm/W	20,000 lm	Beam angle 90°	30660900	BY122P G6 LED400/840 PSD WB	180 lm/W	40,000 lm	Beam angle 90°

CoreLine Highbay Gen6

Order Code	Full Product Name	Luminous efficacy (rated)	Luminous	Optic type
		(nom.)	Flux	
30677700	BY121X G6 LED280/840 SIA NB H4	183 lm/W	28,000 lm	Beam angle 55°
30676000	BY121X G6 LED280/840 SIA WB H4	183 lm/W	28,000 lm	Beam angle 90°
30673900	BY122X G6 LED400/840 SIA NB H4	180 lm/W	40,000 lm	Beam angle 55°
30672200	BY122X G6 LED400/840 SIA WB H4	180 lm/W	40,000 lm	Beam angle 90°

Order Code	Full Product Name	Luminous efficacy (rated)	Luminous	Optic type
		(nom.)	Flux	
30674600	BY121P G6 LED280/840 PSD NB	183 lm/W	28,000 lm	Beam angle 55°
30675300	BY121P G6 LED280/840 PSD WB	183 lm/W	28,000 lm	Beam angle 90°
30645600	BY121P G6 LED300/UE840 PSU NB	194 lm/W	30,000 lm	Beam angle 55°
30644900	BY121P G6 LED300/UE840 PSU WB	194 lm/W	30,000 lm	Beam angle 90°

Operating and Electrical

Order Code	Full Product Name	Input Voltage	Power Consumption
30636400	BY120P G6 LED100/UE840 PSU WB	200 to 240 V	51 W
30650000	BY120P G6 LED100/840 PSD WB	220 to 240 V	55 W
30641800	BY120P G6 LED200/UE840 PSU NB	200 to 240 V	105 W
30655500	BY120P G6 LED200/840 PSD NB	220 to 240 V	110 W
30640100	BY120P G6 LED200/UE840 PSU WB	200 to 240 V	105 W
30654800	BY120P G6 LED200/840 PSD WB	220 to 240 V	110 W
30658600	BY122P G6 LED350/840 PSD WB	220 to 240 V	196 W
30661600	BY122P G6 LED400/840 PSD NB	220 to 240 V	222 W
30648700	BY122P G6 LED400/UE840 PSU WB	200 to 240 V	210 W

Order Code	Full Product Name	Input Voltage	Power Consumption
30660900	BY122P G6 LED400/840 PSD WB	220 to 240 V	222 W
30677700	BY121X G6 LED280/840 SIA NB H4	220 to 240 V	153 W
30676000	BY121X G6 LED280/840 SIA WB H4	220 to 240 V	153 W
30673900	BY122X G6 LED400/840 SIA NB H4	220 to 240 V	222 W
30672200	BY122X G6 LED400/840 SIA WB H4	220 to 240 V	222 W
30674600	BY121P G6 LED280/840 PSD NB	220 to 240 V	153 W
30675300	BY121P G6 LED280/840 PSD WB	220 to 240 V	153 W
30645600	BY121P G6 LED300/UE840 PSU NB	200 to 240 V	155 W
30644900	BY121P G6 LED300/UE840 PSU WB	200 to 240 V	155 W

Controls and Dimming

Order Code	Full Product Name	Dimmable	Maximum dim level
30636400	BY120P G6 LED100/UE840 PSU WB	Fixed	Not applicable
30650000	BY120P G6 LED100/840 PSD WB	DALI	20%
30641800	BY120P G6 LED200/UE840 PSU NB	Fixed	Not applicable
30655500	BY120P G6 LED200/840 PSD NB	DALI	20%
30640100	BY120P G6 LED200/UE840 PSU WB	Fixed	Not applicable
30654800	BY120P G6 LED200/840 PSD WB	DALI	20%
30658600	BY122P G6 LED350/840 PSD WB	DALI	20%
30661600	BY122P G6 LED400/840 PSD NB	DALI	20%
30648700	BY122P G6 LED400/UE840 PSU WB	Fixed	Not applicable

Order Code	Full Product Name	Dimmable	Maximum dim level
30660900	BY122P G6 LED400/840 PSD WB	DALI	20%
30677700	BY121X G6 LED280/840 SIA NB H4	Wireless Dim	20%
30676000	BY121X G6 LED280/840 SIA WB H4	Wireless Dim	20%
30673900	BY122X G6 LED400/840 SIA NB H4	Wireless Dim	20%
30672200	BY122X G6 LED400/840 SIA WB H4	Wireless Dim	20%
30674600	BY121P G6 LED280/840 PSD NB	DALI	20%
30675300	BY121P G6 LED280/840 PSD WB	DALI	20%
30645600	BY121P G6 LED300/UE840 PSU NB	Fixed	Not applicable
30644900	BY121P G6 LED300/UE840 PSU WB	Fixed	Not applicable

Mechanical and Housing

Order Code	Full Product Name	Mech. impact	Ingress
		protection code	protection code
30636400	BY120P G6 LED100/UE840 PSU WB	IK08	IP66
30650000	BY120P G6 LED100/840 PSD WB	IK08	IP66
30641800	BY120P G6 LED200/UE840 PSU NB	IK08	IP66
30655500	BY120P G6 LED200/840 PSD NB	IK08	IP66
30640100	BY120P G6 LED200/UE840 PSU WB	IK08	IP66
30654800	BY120P G6 LED200/840 PSD WB	IK08	IP66
30658600	BY122P G6 LED350/840 PSD WB	IK08	IP66
30661600	BY122P G6 LED400/840 PSD NB	IK08	IP66
30648700	BY122P G6 LED400/UE840 PSU WB	IK08	IP66

Order Code	Full Product Name	Mech. impact	Ingress
		protection code	protection code
30660900	BY122P G6 LED400/840 PSD WB	IK08	IP66
30677700	BY121X G6 LED280/840 SIA NB H4	IK05	IP65
30676000	BY121X G6 LED280/840 SIA WB H4	IK05	IP65
30673900	BY122X G6 LED400/840 SIA NB H4	IK05	IP65
30672200	BY122X G6 LED400/840 SIA WB H4	IK05	IP65
30674600	BY121P G6 LED280/840 PSD NB	IK08	IP66
30675300	BY121P G6 LED280/840 PSD WB	IK08	IP66
30645600	BY121P G6 LED300/UE840 PSU NB	IK08	IP66
30644900	BY121P G6 LED300/UE840 PSU WB	IK08	IP66

Emergency Operation

CoreLine Highbay Gen6

Order Code	Full Product Name	Emergency lighting	Power consumption during Central DC emergency mode
30636400	BY120P G6 LED100/UE840 PSU WB	-	-
30650000	BY120P G6 LED100/840 PSD WB	DC operated central emergency lighting	8.25 W
30641800	BY120P G6 LED200/UE840 PSU NB	-	-
30655500	BY120P G6 LED200/840 PSD NB	DC operated central emergency lighting	16.5 W
30640100	BY120P G6 LED200/UE840 PSU WB	-	-
30654800	BY120P G6 LED200/840 PSD WB	DC operated central emergency lighting	16.5 W
30658600	BY122P G6 LED350/840 PSD WB	DC operated central emergency lighting	29.4 W
30661600	BY122P G6 LED400/840 PSD NB	DC operated central emergency lighting	33.3 W
30648700	BY122P G6 LED400/UE840 PSU WB	-	-

Order Code	Full Product Name	Emergency lighting	Power consumption during Central DC emergency mode
30660900	BY122P G6 LED400/840 PSD WB	DC operated central emergency lighting	33.3 W
30677700	BY121X G6 LED280/840 SIA NB H4	DC operated central emergency lighting	22.95 W
30676000	BY121X G6 LED280/840 SIA WB H4	DC operated central emergency lighting	22.95 W
30673900	BY122X G6 LED400/840 SIA NB H4	DC operated central emergency lighting	33.3 W
30672200	BY122X G6 LED400/840 SIA WB H4	DC operated central emergency lighting	33.3 W
30674600	BY121P G6 LED280/840 PSD NB	DC operated central emergency lighting	22.95 W
30675300	BY121P G6 LED280/840 PSD WB	DC operated central emergency lighting	22.95 W
30645600	BY121P G6 LED300/UE840 PSU NB	-	-
30644900	BY121P G6 LED300/UE840 PSU WB	-	-

Approval and Application

Order Code	Full Product Name	Ambient temperature range
30636400	BY120P G6 LED100/UE840 PSU WB	-40 to +50 °C
30650000	BY120P G6 LED100/840 PSD WB	-40 to +50 °C
30641800	BY120P G6 LED200/UE840 PSU NB	-40 to +50 °C
30655500	BY120P G6 LED200/840 PSD NB	-40 to +50 °C
30640100	BY120P G6 LED200/UE840 PSU WB	-40 to +50 °C
30654800	BY120P G6 LED200/840 PSD WB	-40 to +50 °C
30658600	BY122P G6 LED350/840 PSD WB	-40 to +50 °C
30661600	BY122P G6 LED400/840 PSD NB	-40 to +50 °C
30648700	BY122P G6 LED400/UE840 PSU WB	-40 to +50 °C

Order Code	Full Product Name	Ambient temperature range
30660900	BY122P G6 LED400/840 PSD WB	-40 to +50 °C
30677700	BY121X G6 LED280/840 SIA NB H4	-30 to +50 °C
30676000	BY121X G6 LED280/840 SIA WB H4	-30 to +50 °C
30673900	BY122X G6 LED400/840 SIA NB H4	-30°C to 45°C
30672200	BY122X G6 LED400/840 SIA WB H4	-30°C to 45°C
30674600	BY121P G6 LED280/840 PSD NB	-40 to +50 °C
30675300	BY121P G6 LED280/840 PSD WB	-40 to +50 °C
30645600	BY121P G6 LED300/UE840 PSU NB	-40 to +50 °C
30644900	BY121P G6 LED300/UE840 PSU WB	-40 to +50 °C

