



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 attractive elegance, CoreLine Highbay gen6 is a reliable, highly efficient luminaire with a very long lifespan. 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

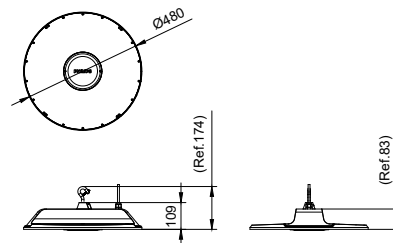
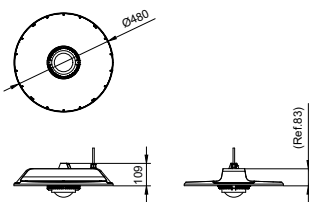
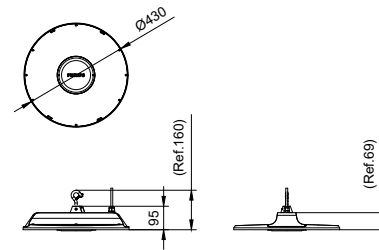
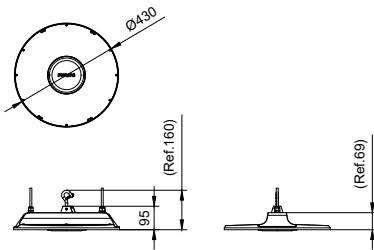
- Manufacturing
- Warehouses

Versions



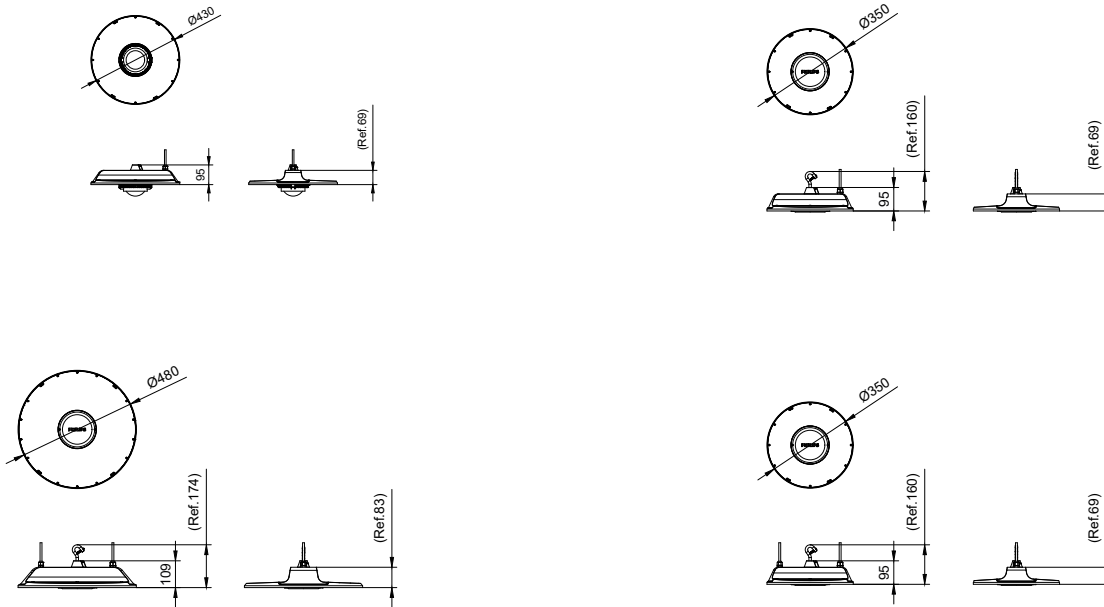
Standard product photo, CoreLine highbay gen6, BY121X

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
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
911401553645	BY120P G6 LED100/UE840 PSU WB	Unit
911401553745	BY120P G6 LED100/840 PSD WB	Unit
911401553945	BY120P G6 LED150/UE840 PSU NB	Unit
911401554345	BY120P G6 LED150/840 PSD WB	Unit
911401554545	BY120P G6 LED200/UE840 PSU NB	Unit
911401554645	BY120P G6 LED200/840 PSD NB	Unit
911401554845	BY120P G6 LED200/UE840 PSU WB	Unit
911401554945	BY120P G6 LED200/840 PSD WB	Unit
911401556745	BY122P G6 LED350/840 PSD WB	2 units
911401557045	BY122P G6 LED400/840 PSD NB	2 units
911401557245	BY122P G6 LED400/UE840 PSU WB	Unit
911401557345	BY122P G6 LED400/840 PSD WB	2 units
911401555845	BY121X G6 LED280/840 SIA NB H4	Unit
911401556045	BY121X G6 LED280/840 SIA WB H4	Unit
911401557145	BY122X G6 LED400/840 SIA NB H4	2 units
911401557445	BY122X G6 LED400/840 SIA WB H4	2 units
911401555745	BY121P G6 LED280/840 PSD NB	Unit
911401555945	BY121P G6 LED280/840 PSD WB	Unit
911401556145	BY121P G6 LED300/UE840 PSU NB	Unit
911401556245	BY121P G6 LED300/UE840 PSU WB	Unit

Light Technical

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux	Optic type
911401553645	BY120P G6 LED100/UE840 PSU WB	196 lm/W	10,000 lm	Beam angle 90°
911401553745	BY120P G6 LED100/840 PSD WB	181 lm/W	10,000 lm	Beam angle 90°
911401553945	BY120P G6 LED150/UE840 PSU NB	192 lm/W	15,000 lm	Beam angle 55°
911401554345	BY120P G6 LED150/840 PSD WB	182 lm/W	15,000 lm	Beam angle 90°
911401554545	BY120P G6 LED200/UE840 PSU NB	190 lm/W	20,000 lm	Beam angle 55°
911401554645	BY120P G6 LED200/840 PSD NB	181 lm/W	20,000 lm	Beam angle 55°
911401554845	BY120P G6 LED200/UE840 PSU WB	190 lm/W	20,000 lm	Beam angle 90°

Order Code	Full Product Name	Luminous efficacy (rated) (nom.)	Luminous Flux	Optic type
911401554945	BY120P G6 LED200/840 PSD WB	181 lm/W	20,000 lm	Beam angle 90°
911401556745	BY122P G6 LED350/840 PSD WB	178 lm/W	35,000 lm	Beam angle 90°
911401557045	BY122P G6 LED400/840 PSD NB	180 lm/W	40,000 lm	Beam angle 55°
911401557245	BY122P G6 LED400/UE840 PSU WB	190 lm/W	40,000 lm	Beam angle 90°
911401557345	BY122P G6 LED400/840 PSD WB	180 lm/W	40,000 lm	Beam angle 90°
911401555845	BY121X G6 LED280/840 SIA NB H4	183 lm/W	28,000 lm	Beam angle 55°
911401556045	BY121X G6 LED280/840 SIA WB H4	183 lm/W	28,000 lm	Beam angle 90°

CoreLine Highbay gen6

Order Code	Full Product Name	Luminous	Luminous	Optic type
		efficacy (rated) (nom.)		
911401557145	BY122X G6 LED400/840 SIA NB H4	180 lm/W	40,000 lm	Beam angle 55°
911401557445	BY122X G6 LED400/840 SIA WB H4	180 lm/W	40,000 lm	Beam angle 90°
911401555745	BY121P G6 LED280/840 PSD NB	183 lm/W	28,000 lm	Beam angle 55°

Order Code	Full Product Name	Luminous	Luminous	Optic type
		efficacy (rated) (nom.)		
911401555945	BY121P G6 LED280/840 PSD WB	183 lm/W	28,000 lm	Beam angle 90°
911401556145	BY121P G6 LED300/UE840 PSU NB	193 lm/W	30,000 lm	Beam angle 55°
911401556245	BY121P G6 LED300/UE840 PSU WB	193 lm/W	30,000 lm	Beam angle 90°

Operating and Electrical

Order Code	Full Product Name	Input Voltage	Power Consumption
911401553645	BY120P G6 LED100/UE840 PSU WB	200 to 240 V	51 W
911401553745	BY120P G6 LED100/840 PSD WB	220 to 240 V	55 W
911401553945	BY120P G6 LED150/UE840 PSU NB	200 to 240 V	78 W
911401554345	BY120P G6 LED150/840 PSD WB	220 to 240 V	82 W
911401554545	BY120P G6 LED200/UE840 PSU NB	200 to 240 V	105 W
911401554645	BY120P G6 LED200/840 PSD NB	220 to 240 V	110 W
911401554845	BY120P G6 LED200/UE840 PSU WB	200 to 240 V	105 W
911401554945	BY120P G6 LED200/840 PSD WB	220 to 240 V	110 W
911401556745	BY122P G6 LED350/840 PSD WB	220 to 240 V	196 W
911401557045	BY122P G6 LED400/840 PSD NB	220 to 240 V	222 W

Order Code	Full Product Name	Input Voltage	Power Consumption
911401557245	BY122P G6 LED400/UE840 PSU WB	200 to 240 V	210 W
911401557345	BY122P G6 LED400/840 PSD WB	220 to 240 V	222 W
911401555845	BY121X G6 LED280/840 SIA NB H4	220 to 240 V	153 W
911401556045	BY121X G6 LED280/840 SIA WB H4	220 to 240 V	153 W
911401557145	BY122X G6 LED400/840 SIA NB H4	220 to 240 V	222 W
911401557445	BY122X G6 LED400/840 SIA WB H4	220 to 240 V	222 W
911401555745	BY121P G6 LED280/840 PSD NB	220 to 240 V	153 W
911401555945	BY121P G6 LED280/840 PSD WB	220 to 240 V	153 W
911401556145	BY121P G6 LED300/UE840 PSU NB	200 to 240 V	155 W
911401556245	BY121P G6 LED300/UE840 PSU WB	200 to 240 V	155 W

Controls and Dimming

Order Code	Full Product Name	Dimmable	Embedded	Maximum
			control	dim level
911401553645	BY120P G6 LED100/UE840 PSU WB	No	-	Not applicable
911401553745	BY120P G6 LED100/840 PSD WB	Yes	-	20%
911401553945	BY120P G6 LED150/UE840 PSU NB	No	-	Not applicable
911401554345	BY120P G6 LED150/840 PSD WB	Yes	-	20%
911401554545	BY120P G6 LED200/UE840 PSU NB	No	-	Not applicable
911401554645	BY120P G6 LED200/840 PSD NB	Yes	-	20%
911401554845	BY120P G6 LED200/UE840 PSU WB	No	-	Not applicable
911401554945	BY120P G6 LED200/840 PSD WB	Yes	-	20%
911401556745	BY122P G6 LED350/840 PSD WB	Yes	-	20%
911401557045	BY122P G6 LED400/840 PSD NB	Yes	-	20%

Order Code	Full Product Name	Dimmable	Embedded	Maximum
			control	dim level
911401557245	BY122P G6 LED400/UE840 PSU WB	No	-	Not applicable
911401557345	BY122P G6 LED400/840 PSD WB	Yes	-	20%
911401555845	BY121X G6 LED280/840 SIA NB H4	Yes	Sensor SNH (R) 210	20%
911401556045	BY121X G6 LED280/840 SIA WB H4	Yes	Sensor SNH (R) 210	20%
911401557145	BY122X G6 LED400/840 SIA NB H4	Yes	Sensor SNH (R) 210	20%
911401557445	BY122X G6 LED400/840 SIA WB H4	Yes	Sensor SNH (R) 210	20%
911401555745	BY121P G6 LED280/840 PSD NB	Yes	-	20%
911401555945	BY121P G6 LED280/840 PSD WB	Yes	-	20%
911401556145	BY121P G6 LED300/UE840 PSU NB	No	-	Not applicable
911401556245	BY121P G6 LED300/UE840 PSU WB	No	-	Not applicable

Mechanical and Housing

CoreLine Highbay gen6

Order Code	Full Product Name	Mech. impact protection code	Ingress protection code
911401553645	BY120P G6 LED100/UE840 PSU WB	IK08	IP66
911401553745	BY120P G6 LED100/840 PSD WB	IK08	IP66
911401553945	BY120P G6 LED150/UE840 PSU NB	IK08	IP66
911401554345	BY120P G6 LED150/840 PSD WB	IK08	IP66
911401554545	BY120P G6 LED200/UE840 PSU NB	IK08	IP66
911401554645	BY120P G6 LED200/840 PSD NB	IK08	IP66
911401554845	BY120P G6 LED200/UE840 PSU WB	IK08	IP66
911401554945	BY120P G6 LED200/840 PSD WB	IK08	IP66
911401556745	BY122P G6 LED350/840 PSD WB	IK08	IP66
911401557045	BY122P G6 LED400/840 PSD NB	IK08	IP66

Order Code	Full Product Name	Mech. impact protection code	Ingress protection code
911401557245	BY122P G6 LED400/UE840 PSU WB	IK08	IP66
911401557345	BY122P G6 LED400/840 PSD WB	IK08	IP66
911401555845	BY121X G6 LED280/840 SIA NB H4	IK05	IP65
911401556045	BY121X G6 LED280/840 SIA WB H4	IK05	IP65
911401557145	BY122X G6 LED400/840 SIA NB H4	IK05	IP65
911401557445	BY122X G6 LED400/840 SIA WB H4	IK05	IP65
911401555745	BY121P G6 LED280/840 PSD NB	IK08	IP66
911401555945	BY121P G6 LED280/840 PSD WB	IK08	IP66
911401556145	BY121P G6 LED300/UE840 PSU NB	IK08	IP66
911401556245	BY121P G6 LED300/UE840 PSU WB	IK08	IP66

Emergency Operation

Order Code	Full Product Name	Power consumption during Central DC emergency mode
911401553645	BY120P G6 LED100/UE840 PSU WB	-
911401553745	BY120P G6 LED100/840 PSD WB	8.25 W
911401553945	BY120P G6 LED150/UE840 PSU NB	-
911401554345	BY120P G6 LED150/840 PSD WB	12.3 W
911401554545	BY120P G6 LED200/UE840 PSU NB	-
911401554645	BY120P G6 LED200/840 PSD NB	16.5 W
911401554845	BY120P G6 LED200/UE840 PSU WB	-
911401554945	BY120P G6 LED200/840 PSD WB	16.5 W
911401556745	BY122P G6 LED350/840 PSD WB	29.4 W
911401557045	BY122P G6 LED400/840 PSD NB	33.3 W

Order Code	Full Product Name	Power consumption during Central DC emergency mode
911401557245	BY122P G6 LED400/UE840 PSU WB	-
911401557345	BY122P G6 LED400/840 PSD WB	33.3 W
911401555845	BY121X G6 LED280/840 SIA NB H4	22.95 W
911401556045	BY121X G6 LED280/840 SIA WB H4	22.95 W
911401557145	BY122X G6 LED400/840 SIA NB H4	33.3 W
911401557445	BY122X G6 LED400/840 SIA WB H4	33.3 W
911401555745	BY121P G6 LED280/840 PSD NB	22.95 W
911401555945	BY121P G6 LED280/840 PSD WB	22.95 W
911401556145	BY121P G6 LED300/UE840 PSU NB	-
911401556245	BY121P G6 LED300/UE840 PSU WB	-

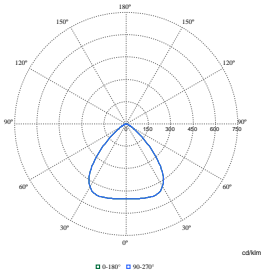
Approval and Application

Order Code	Full Product Name	Ambient temperature range
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911401553745	BY120P G6 LED100/840 PSD WB	-40 to +50 °C
911401553945	BY120P G6 LED150/UE840 PSU NB	-40 to +50 °C
911401554345	BY120P G6 LED150/840 PSD WB	-40 to +50 °C
911401554545	BY120P G6 LED200/UE840 PSU NB	-40 to +50 °C
911401554645	BY120P G6 LED200/840 PSD NB	-40 to +50 °C
911401554845	BY120P G6 LED200/UE840 PSU WB	-40 to +50 °C
911401554945	BY120P G6 LED200/840 PSD WB	-40 to +50 °C
911401556745	BY122P G6 LED350/840 PSD WB	-40 to +50 °C
911401557045	BY122P G6 LED400/840 PSD NB	-40 to +50 °C

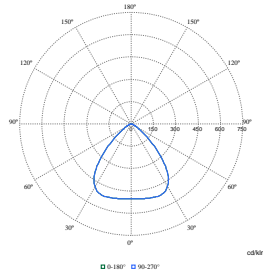
Order Code	Full Product Name	Ambient temperature range
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911401557345	BY122P G6 LED400/840 PSD WB	-40 to +50 °C
911401555845	BY121X G6 LED280/840 SIA NB H4	-30 to +50 °C
911401556045	BY121X G6 LED280/840 SIA WB H4	-30 to +50 °C
911401557145	BY122X G6 LED400/840 SIA NB H4	-30°C to 45°C
911401557445	BY122X G6 LED400/840 SIA WB H4	-30°C to 45°C
911401555745	BY121P G6 LED280/840 PSD NB	-40 to +50 °C
911401555945	BY121P G6 LED280/840 PSD WB	-40 to +50 °C
911401556145	BY121P G6 LED300/UE840 PSU NB	-40 to +50 °C
911401556245	BY121P G6 LED300/UE840 PSU WB	-40 to +50 °C

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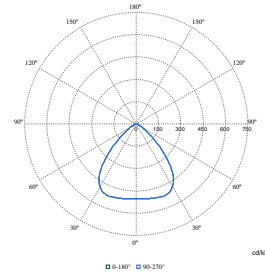
Polar Wide Diagrams



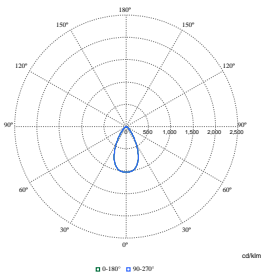
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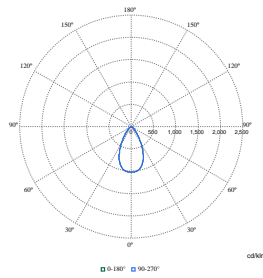
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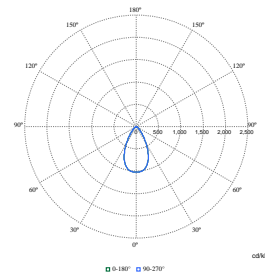
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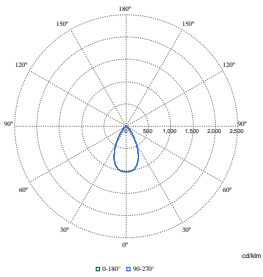
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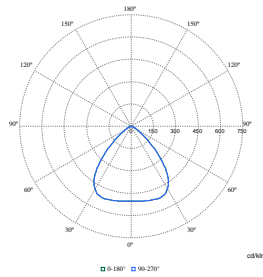
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