

A close-up photograph of a floodlight lens. The lens is dark and textured, with a prominent blue adjustment ring in the center. The ring has a hexagonal hole in its middle. The background is blurred, showing the curved surface of the floodlight housing.

OptiVision
Tame your floodlighting

Let's make things better.



PHILIPS



Putting people's rights in a new light

People near floodlight installations have a right to peace and tranquillity.



In urban areas, artificial lighting should meet everybody's needs in terms of pleasure, safety and productivity.

However, for players, pedestrians and residents to be able to go about their business without disturbing each other, floodlighting must be specially designed to ensure that **everyone's rights and needs are respected**.

Good artificial lighting should prevent uncontrolled stray light and light spillage beyond, for example, the boundaries of a harbour, a parking area or a sports field, so that it does not affect people who live in the vicinity.

This "obtrusive" light includes light that falls on or enters a property, glare from an installation that affects passing drivers or the upward leakage of light that artificially brightens and obscures the night sky. Growing awareness of the issue of "obtrusive" lighting has prompted a number of countries to draw up guidelines to control it. **Accordingly, the design of**

environmentally friendly floodlighting

has become a pressing technical challenge.

As the world leader in floodlighting and as a truly green company, Philips has responded to this challenge by designing a completely new asymmetric floodlight – **OptiVision**.



OptiVision is suitable for applications in sports fields, airports, harbours, railway yards, parking areas, etc.



Four exclusive optical features make OptiVision so optimal

Firstly, as **the pioneers of asymmetric lighting**, Philips' optical engineers have gone one step further by designing the OptiVision reflector system. It delivers its highest peak intensity at 60° and an excellent cut-off at 80° in a flat glass (horizontal) position.

Thus, for a given amount of light on the field, **OptiVision produces three times less spill-over than other asymmetric floodlights**. And ten times less than conventional floodlights!

Secondly, thanks to minimal internal reflection in the OptiVision's optics, a 20% higher light output ratio (LOR) is achieved than with any other asymmetric floodlight.

You may well find, therefore, that you need fewer floodlights in your installation to achieve the required lighting level over a given area.

Thirdly, by designing very compact optics around a 2kW lamp and oversized fins for more effective cooling, Philips has succeeded in making **OptiVision smaller than any other comparable 2kW floodlight**.

The compactness thus achieved leads to a reduced visual impact and means that less robust columns can be used.



Different beams for total flexibility



1 MHN-LA 2kW MB
2 MHN-LA 2kW WB
3 MHN-LA 2kW NB
4 SON-T-P 600W WB

Lastly, OptiVision offers three different beam characteristics for the MHN-LA 2kW lamp: narrow, medium and wide, as well as specific wide beams for MHN-LA 1kW and SON-T 600W/1000W. The choice of lamps and reflectors allows total flexibility in lighting designs (sports fields and area lighting).

The designers at Philips have drawn on their extensive expertise and experience to create this cutting-edge floodlight system that boasts unequalled lamp performance and optics.

OptiVision projects light downwards, ensuring a total cut-off of light above the level of the luminaire, thus avoiding spill light into nearby properties.



Tilted floodlight



Horizontally positioned OptiVision



Designed with ease of operation in mind

Bracket allows positioning above or below the mast



All OptiVision features have **the effect of reducing initial costs and making installation easier**, thus improving installation performance.

Roughly 15% smaller than other asymmetric floodlights, at 16.8 kilos OptiVision is also the **lightest floodlight on the market**. This slim, smooth design produces a projected area of only 0.16m and an extremely low wind-drag factor, thus allowing lighter mast constructions to be used.

In addition, OptiVision can be mounted above or below a crossbar simply by inverting the bracket. **This allows multiple lights to be fitted on each mast.**

Alignment is also easier and quicker thanks to the large 'protractor-scale' angle indicators at either side of the floodlight, whilst a simple aiming device permits aiming on the mast.

OptiVision is supplied with a pre-cabled connection box. The only connection that remains to be made is from the mains cable to the gear. An optional gear box is available for gear up to 1000W.



Optimal gear box for gear up to 1000W



Easily visible protractor scale simplifies aiming



Pre-cabled connection box: just add mains cable



Fine-tuned down to the smallest detail for optimal reliability

Product reliability is the key in floodlighting because of the inaccessibility of the product in high mast installations and because it is used on a daily basis.

OptiVision is corrosion-resistant even in the most adverse weather conditions, thanks to its **high-purity aluminium housing and stainless steel clips**.



Only high-purity aluminium and stainless steel clips are used.

OptiVision ensures precise positioning of the compact double-ended lamp to give excellent beam control. MHN-LA 1000W / 2000W lamps from Philips are widely considered to be the best on the market.

Their average lifetime is 8000 hours, with very little drop-off in output and **extremely stable colour characteristics**.

OptiVision provides optimal working conditions for the lamps because the housing



MHN-LA 2000W/842
MHN-LA 1000W/842

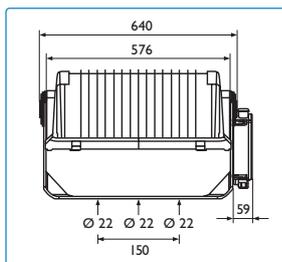
is cooled by means of a unique, large-finned convector system. A built-in safety switch allows the floodlight to be isolated temporarily from the mains, providing the safest possible conditions for installation and maintenance.

Finally OptiVision is more than just a floodlight. Philips is the only manufacturer to supply all the relevant technologies, from lamp and gear to floodlight, to guarantee optimal performance.

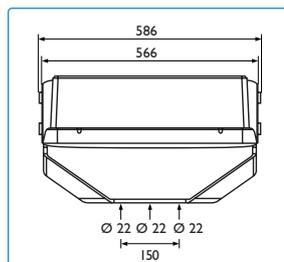


OptiVision's IP65 rating means it is totally impervious to dust and can withstand being cleaned by a high-pressure water jet.

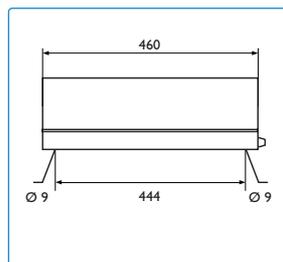
Dimensions in mm



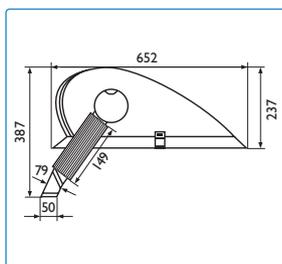
Back view luminaire MVP 507



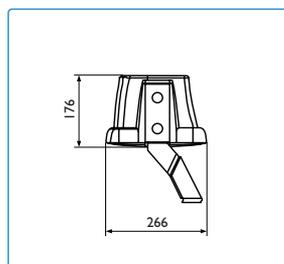
Back view gearbox ZVP 507



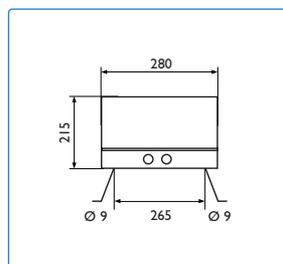
Back view gearbox DK6A



Side view luminaire MVP 507



Side view gearbox ZVP 507



Side view gearbox DK6A

Technical data

Ambient temperature (outdoor)	35°C
Classification (luminaire)	IP65
Insulation class	I
Complies with	IEC 598
Safety switch	built-in*
Windload data	
Projected surface (horz.position)	0,16m ²
Drag factor	0,447
Weight luminaire	MHN 17,2 kg SON 17,3 kg
Weight attached gearbox	9 kg
Weight remote gearbox	8,1 kg

*MHN versions only

Connection box



PG 11 cable gland for entry of the safety switch cable. PG 16 cable gland for incoming earth & lamp cables.

Terminal block with screw terminals inside for cable cores up to 16 mm².

Accessories

Type of gearbox	EOC code
ZVP507 1X MHN-LA 1000W / SON-T 1000W attachable gearbox*	available mid 2001
ZVP507 1X SON-T-P 600W attachable gearbox*	available mid 2001
DK6A remote gearbox	24173900

*including gear

Ordering data

Luminaire	EOC code
MVP507 1xSON-T-P 600W 230V K WB	15192200
MVP507 1xSON-T 1000W 230V K WB	15193900
MVP507 1xMHN-LA 1000W/842 230V K WB	15195300
MVP507 1xMHN-LA 2000W/842 400V K WB	15196000
MVP507 1xMHN-LA 2000W/842 400V K MB	15197700
MVP507 1xMHN-LA 2000W/842 400V K NB	15198400
MVP507 1xSON-T-P 600W 230V WB	15199100
MVP507 1xSON-T 1000W 230V WB	15200400
MVP507 1xMHN-LA 1000W/842 230V WB	15202800
MVP507 1xMHN-LA 2000W/842 400V WB	15203500
MVP507 1xMHN-LA 2000W/842 400V MB	15204200
MVP507 1xMHN-LA 2000W/842 400V NB	15205900

K = Kombi including lamp
NB = Narrow beam
MB = Medium beam
WB = Wide beam



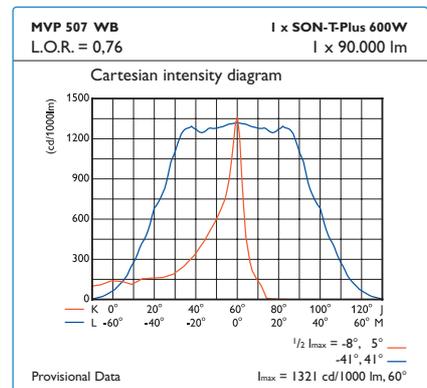
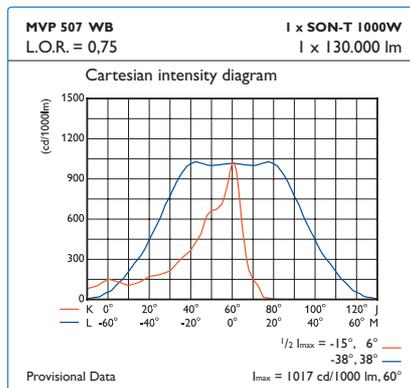
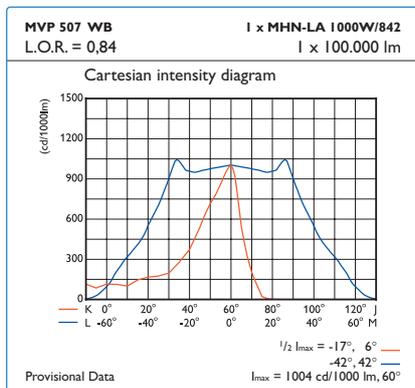
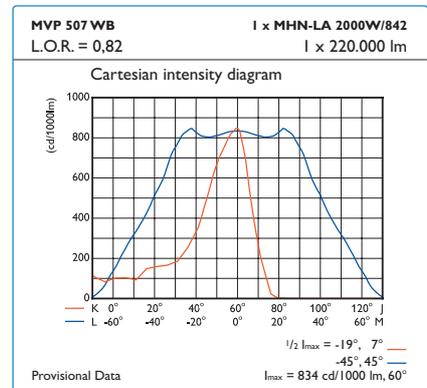
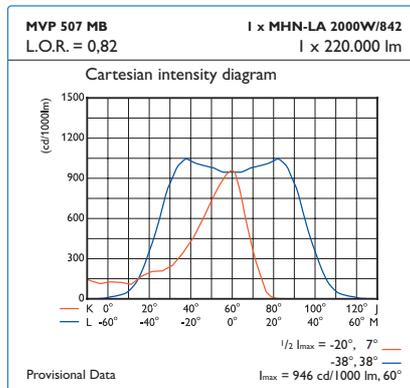
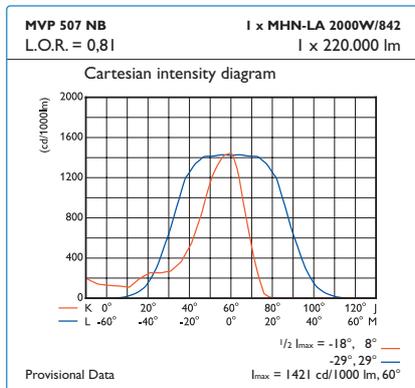
ZVF320/choice sheet geartrays

dimensions	lamps	mains	type of ballast	ignitor	capacitance	fuse
<input type="checkbox"/> wide (264 x 410 mm) <input type="checkbox"/> long (148 x 650 mm)	<input type="checkbox"/> SON-T-P 600W	<input type="checkbox"/> 220V-60Hz	basic	series		<input type="checkbox"/> yes <input type="checkbox"/> no
		<input type="checkbox"/> 230V-50Hz <input type="checkbox"/> 240V-50Hz	basic	semi-parallel	1 nF	
		<input type="checkbox"/> 230V-50Hz <input type="checkbox"/> 240V-50Hz	<input type="checkbox"/> basic <input type="checkbox"/> high protection	semi-parallel	<input type="checkbox"/> ≤6 nF <input type="checkbox"/> ≤4.5 nF <input type="checkbox"/> 4-10 nF	
	<input type="checkbox"/> SON-T 1000W <input type="checkbox"/> MHN-LA 1000W	<input type="checkbox"/> 220V-60Hz <input type="checkbox"/> 230-240V 50Hz	<input type="checkbox"/> basic <input type="checkbox"/> high protection	semi-parallel		
		<input type="checkbox"/> 380-415V 50Hz <input type="checkbox"/> 380-400V 50Hz	basic	series		
		<input type="checkbox"/> 380-415V 50Hz <input type="checkbox"/> 380-400V 50Hz	high protection	series		

Lamps

	MHN-LA 1000W/842	MHN-LA 2000W/842	SON-T-P 600W	SON-T 1000W
Luminous flux (Lm)	100.000	220.000	90.000	130.000
Colour temperature (K)	4200	4200	2000	2000
Colour rendering index	80	80	20	25
Life expectancy based on 50 % failures (hrs)	8000	8000	16.000	14.000
Average lamp voltage (V)	125	235	115	115
Average lamp watts (W)	1040	2040	600	1000
Max. current during starting (A)	15	15	8.7	14
Run-up time (min)	4	4	10	6
Re-ignition time (min)	max 15	max 15	1	4

Photometric data



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OptiVision



OptiVision Product Guide CD-Rom



All the technical information regarding OptiVision are in the Product guide CD-Rom.
Ask for it to your local Philips representative.