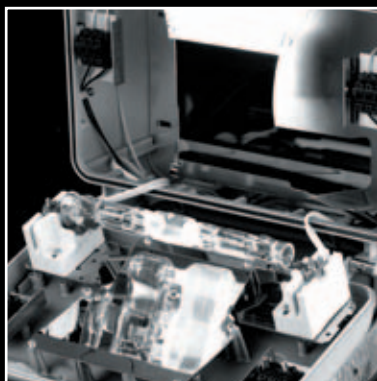


## The versatility of the light

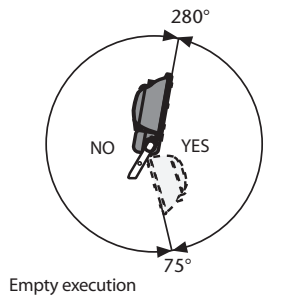
The **LIGHTMASTER 1000** series is the most complete range of 1KW projectors available on the market thanks to the possibility to integrate all types of 1000W lamps, double ended short and long arc and E40, to different types of reflectors.

The versatility of this powerful floodlight, make it suitable in several application: sport facilities, large and industrial areas such as sea ports, terminal docks, container storage, railway yards and airstrips.

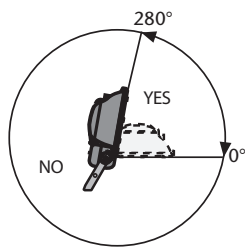


# Technical features of Lightmaster 1000

## Aiming



Empty execution



Execution with inside kit

The aiming is achieved both with a mechanical sighting device, using a lateral protractor scale that indicates the angle of tilt and can be used for pre-aiming, or, for a more precise aiming, a telescope 6x36 mounted on the sighting device (optional).

## Description

### CHARACTERISTICS

- Body, rear cover and glass frame, in die cast aluminium, with primary alloy and low copper content with a high weather proof rating.
- Coated with silver polyester powder.
- Front tempered glass resistant to high temperatures and to thermal shock.
- Anti-ageing gaskets in silicon rubber.
- Hot deep galvanized sheet steel fixing bracket.
- Wind exposed surface with tilt  $70^\circ = 0,2160 \text{ m}^2$ .
- Pressure compensation filter in teflon.
- Insulation class I and II.
- Protection degree against external impacts: IK 08.
- Gear housing separated from optical housing, complete of ignitor.
- In the execution with two power switches, the fixture is available also in incorporated control gear kit version (only in insulation class I).
- In the other versions, the CABLO SERVICE box, in die-cast aluminium IP 65 for class I or in thermoplastic material IP 66 for class II, may be used for the supply of the lamp.
- The mounting distances between the gear box and the body can be up to 50/70 meters, as the ignitor is fitted within the rear housing of the projector.
- Designed for indoor and outdoor applications.
- The fixture is approved for nominal temperature of  $35^\circ\text{C}$  (incorporated control gear kit version excluded). Thus, according to EN 60598-1, the fixture can be used, for discontinuous periods, at  $45^\circ\text{C}$ .
- The incorporated control gear kit execution, only in insulation class I, are suitable for outdoor applications and maximum ambient temperature of  $25^\circ\text{C}$ .
- Hot Restrike version for short arc lamp with one security knife switch available on request. In these versions, to allow the maintenance of the distances for high voltage, the lighting performances are 5% lower compared to the standard version.

### OPTICAL SYSTEM

The careful study of the optics and the choice of high-performing materials allows an excellent control of the luminous flux and a considerable glare reduction thanks to the centering device of the lamp.

- The **symmetrical** floodlight is supplied with two types of optics:
  - wide beam;
  - intensive.

The flux reflecting skirt reduce considerably the direct glare, ensuring an improved visual comfort.

- The **asymmetrical** floodlight is supplied with semi-intensified reflector, with or without deflector, in high pure aluminium (99,99%) with elevated reflectance and efficiency.

The luminaire can be equipped with an aluminium anti-glare louvre, painted in silver colour, that allows to move the plane of maximum intensity to  $60^\circ$ , in full compliance with national and international legislation against light pollution.

- High intensity paraboloid rotational optical system, made up of C1, C2, C3, C4, C5 optics. The flux reflecting skirt reduce considerably the direct glare, ensuring an improved visual comfort.

### LAMP MOUNTING AND REPLACEMENT

The lamp is accessed by opening the rear cover, using two strong stainless steel quick release clips. When the rear cover is opened the power is automatically disconnected.

The floodlight is available in two versions:

- With two power knife switches: when the cover is opened, the power supply to lampholders is directly interrupted.
- With one security knife switch: in this case the remote control switch must be connected to the poles of the terminal block inside the connection box. When the cover is opened, the remote control switch disconnects the power supply.

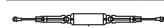
Lamp replacement is achieved by opening the cover housing at an angle of  $110^\circ$ .

In case of lamp failure or at the end of lamp life, it's absolutely necessary to open the E switch to inhibit the ignitor's discharge, till the lamp is changed.

### LAMPS



MD 1000W short arc



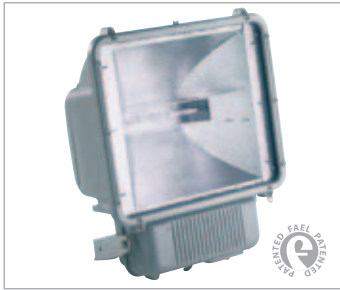
MD 1000W long arc

### COLOUR

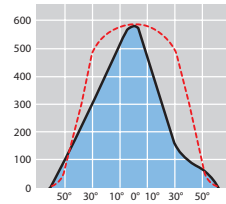


Silver

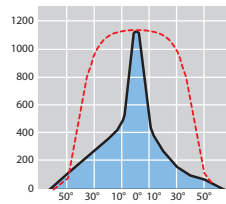
## Photometric data



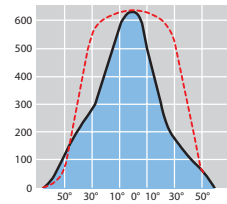
Symmetric



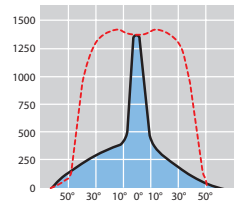
MD 1000W long arc  
LIGHTMASTER 1000  
Symmetric - wide beam



MD 1000W long arc  
LIGHTMASTER 1000  
Symmetric - intensive



MD 1000W short arc  
LIGHTMASTER 1000  
Symmetric - wide beam



MD 1000W short arc  
LIGHTMASTER 1000  
Symmetric - intensive

## Products codes

### LIGHTMASTER 1000 SYMMETRIC - CLI

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
70501	Silver Body - Intensive	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70502	Silver Body - Wide beam	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70507	Silver Body - Intensive	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70508	Silver Body - Wide beam	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
CE 70750	CR Silver Body - Intensive	MD (JM-TS) 1000W Osram	25.40	1	20	0.080
CE 70751	CR Silver Body - Wide beam	MD (JM-TS) 1000W Osram	25.40	1	20	0.080
CE 70757	CR Silver Body - Intensive	MD (JM-TS) 1000W Philips	25.40	1	20	0.080
CE 70758	CR Silver Body - Wide beam	MD (JM-TS) 1000W Philips	25.40	1	20	0.080

With two power knife switches when the cover is opened, the power supply to lampholders is directly interrupted.

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
70511	Silver Body - Intensive	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70512	Silver Body - Wide beam	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70517	Silver Body - Intensive	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70518	Silver Body - Wide beam	MD (JM-TS) 1000W Philips	13.25	1	20	0.080

With one security knife switch version, the remote control switch must be connected to the poles of the terminal block inside the connection box. When the cover is opened, the remote control switch disconnects the power supply. Execution with hot restrike ignitor is available, on request, for the version with one security knife switch insulation CL I.

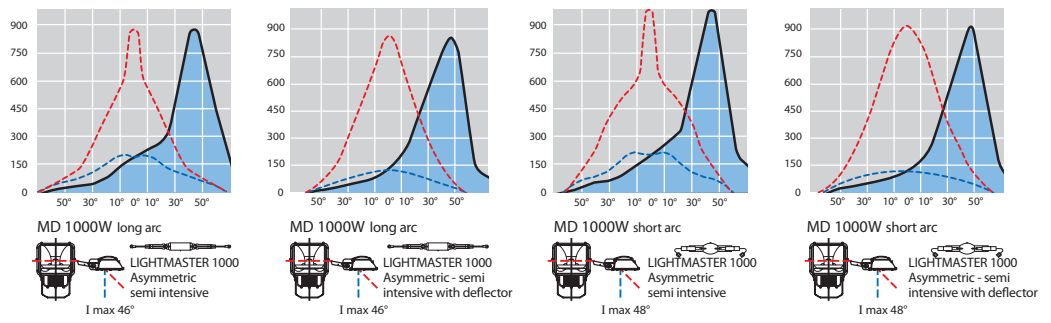
CE Floodlight with CE marking only.

☐ The versions with two power knife switches, and without power electric unit, are available also in insulation CL II.

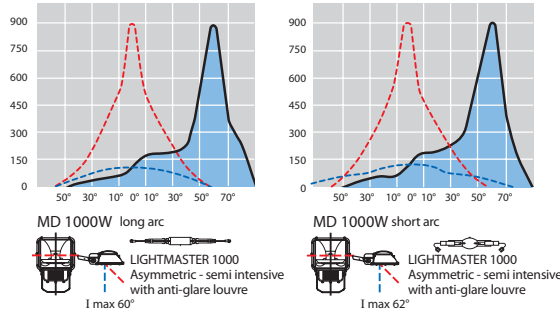
# Photometric data



Asymmetric



Asymmetric with louvre



## Products codes

### LIGHTMASTER 1000 ASYMMETRIC - CLI

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
70531	Silver Body - Semi intensive with deflector	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70537	Silver Body - Semi intensive with deflector	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70701	Silver Body - Intensive	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70707	Silver Body - Intensive	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
€ 70761	CR Silver Body - Semi intensive with deflector	MD (JM-TS) 1000W Osram	25.40	1	20	0.080
€ 70767	CR Silver Body - Semi intensive with deflector	MD (JM-TS) 1000W Philips	25.40	1	20	0.080
€ 70771	CR Silver Body - Intensive	MD (JM-TS) 1000W Osram	25.40	1	20	0.080
€ 70777	CR Silver Body - Intensive	MD (JM-TS) 1000W Philips	25.40	1	20	0.080

With two power knife switches when the cover is opened, the power supply to lampholders is directly interrupted.

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
70541	Silver Body - Semi intensive with deflector	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70547	Silver Body - Semi intensive with deflector	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70711	Silver Body - Semi intensive	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70717	Silver Body - Semi intensive	MD (JM-TS) 1000W Philips	13.25	1	20	0.080

With one security knife switch version, the remote control switch must be connected to the poles of the terminal block inside the connection box. When the cover is opened, the remote control switch disconnects the power supply. Execution with hot restrike ignitor is available, on request, for the version with one security knife switch insulation CL I.

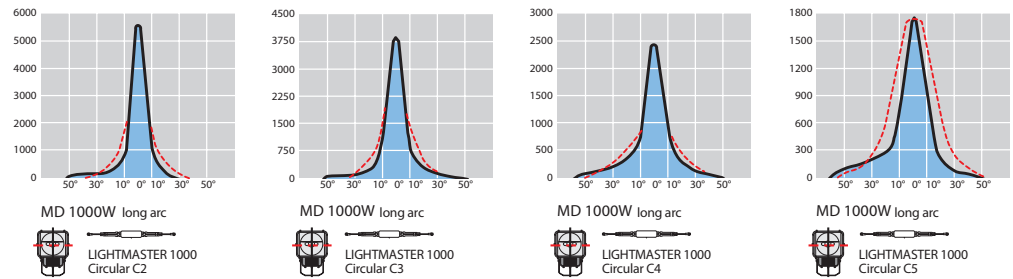
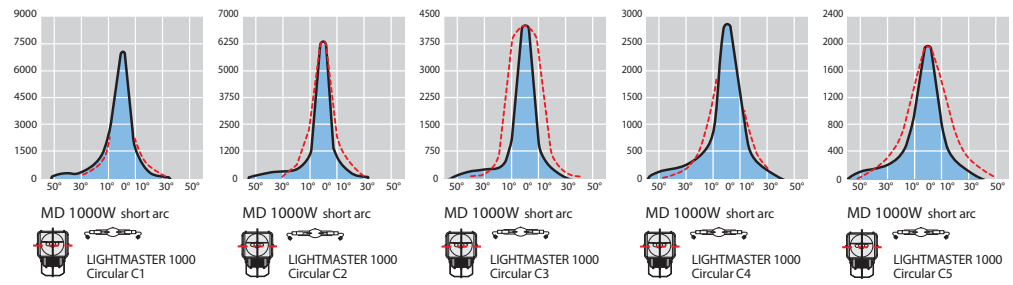
€ Floodlight with CE marking only.

☐ The versions with two power knife switches, and without power electric unit, are available also in insulation CL II.

# Photometric data



Circular



# Products codes

## LIGHTMASTER 1000 CIRCULAR - CLI

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
70561	Silver Body - Circular C1	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70562	Silver Body - Circular C2	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70563	Silver Body - Circular C3	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70564	Silver Body - Circular C4	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70565	Silver Body - Circular C5	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70572	Silver Body - Circular C2	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70573	Silver Body - Circular C3	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70574	Silver Body - Circular C4	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70575	Silver Body - Circular C5	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
€ 70781	CR Silver Body - Circular C1	MD (JM-TS) 1000W Osram	25.40	1	20	0.080
€ 70782	CR Silver Body - Circular C2	MD (JM-TS) 1000W Osram	25.40	1	20	0.080
€ 70783	CR Silver Body - Circular C3	MD (JM-TS) 1000W Osram	25.40	1	20	0.080
€ 70784	CR Silver Body - Circular C4	MD (JM-TS) 1000W Osram	25.40	1	20	0.080
€ 70785	CR Silver Body - Circular C5	MD (JM-TS) 1000W Osram	25.40	1	20	0.080
€ 70792	CR Silver Body - Circular C2	MD (JM-TS) 1000W Philips	25.40	1	20	0.080
€ 70793	CR Silver Body - Circular C3	MD (JM-TS) 1000W Philips	25.40	1	20	0.080
€ 70794	CR Silver Body - Circular C4	MD (JM-TS) 1000W Philips	25.40	1	20	0.080
€ 70795	CR Silver Body - Circular C5	MD (JM-TS) 1000W Philips	25.40	1	20	0.080

With two power knife switches when the cover is opened, the power supply to lampholders is directly interrupted.

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
70581	Silver Body - Circular C1	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70582	Silver Body - Circular C2	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70583	Silver Body - Circular C3	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70584	Silver Body - Circular C4	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70585	Silver Body - Circular C5	MD (JM-TS) 1000W Osram	13.25	1	20	0.080
70592	Silver Body - Circular C2	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70593	Silver Body - Circular C3	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70594	Silver Body - Circular C4	MD (JM-TS) 1000W Philips	13.25	1	20	0.080
70595	Silver Body - Circular C5	MD (JM-TS) 1000W Philips	13.25	1	20	0.080

With one security knife switch version, the remote control switch must be connected to the poles of the terminal block inside the connection box. When the cover is opened, the remote control switch disconnects the power supply. Execution with hot restrike ignitor is available, on request, for the version with one security knife switch insulation CL I.

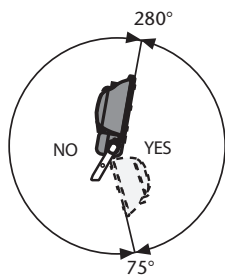
€ Floodlight with CE marking only.

☐ The versions with two power knife switches, and without power electric unit, are available also in insulation CL II.

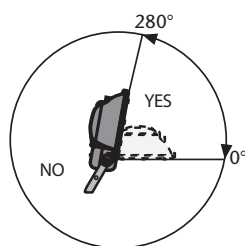
# Technical features of Lightmaster 1000 E40

## Aiming

## Description



Empty execution



Execution with inside kit

The aiming is achieved both with a mechanical sighting device, using a lateral protractor scale that indicates the angle of tilt and can be used for pre-aiming, or, for a more precise aiming, a telescope 6x36 mounted on the sighting device (optional).

### CHARACTERISTICS

- LIGHTMASTER 1000 version suitable to metal halide and high pressure sodium lamps with E40 lampholder.
- Body, rear cover and glass frame, in die cast aluminium, with primary alloy and low copper content with a high weather proof rating.
- Coated with silver polyester powder.
- Front tempered glass resistant to high temperatures and to thermal shock.
- Anti-ageing gaskets in silicon rubber.
- Porcelain E40 lampholder complete with anti-screwing out device.
- Hot deep galvanized sheet steel fixing bracket.
- Gear housing separated from optical housing.
- Wind exposed surface with tilt  $70^\circ = 0,2160 \text{ m}^2$ .
- Pressure compensation filter in teflon.
- The luminaire is also available in the version complete with incorporated control gear kit (only for insulation class I).
- The CABLO SERVICE box, in die-cast aluminium IP 65 for class I or in thermoplastic material IP 66 for class II, may be used for the supply of the lamp.

### OPTICAL SYSTEM

The careful study of the optics and the choice of high-performing materials allows an excellent control of the luminous flux and a considerable glare reduction thanks to the centering device of the lamp.

The luminaire is supplied with three different types of light output:

- The **symmetrical** floodlight is supplied with two types of optics:
  - wide beam;
  - semi intensive. The flux reflecting skirt reduce considerably the direct glare, ensuring an improved visual comfort.
- The **asymmetrical** floodlight is supplied with semi-intensive reflector, in high pure aluminium (99,99%) with elevated reflectance and efficiency. The floodlight can be equipped with a coated stainless steel anti-glare louvre that allows to move the plane of maximum intensity to  $55^\circ$ , in full compliance with national and international legislation against light pollution.
- **Circular** optic with high intensity rotational reflector. The flux reflecting skirt reduce considerably the direct glare, ensuring an improved visual comfort.

### LAMP MOUNTING AND REPLACEMENT

The lamp is accessed by opening the rear cover by using two strong stainless steel quick release clips.

### LAMPS



MT (JM-T) 1000W E40



ST (SAP-T) 1000W E40

### COLOUR

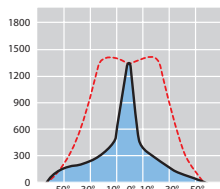


Silver

## Photometric data



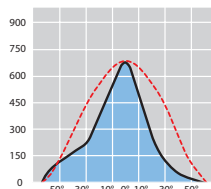
Symmetric



ST (SAP-T) 1000W E40



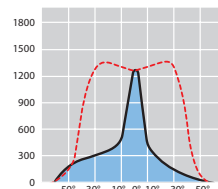
LIGHTMASTER 1000 E40  
Symmetric - semi intensive



ST (SAP-T) 1000W E40



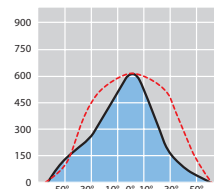
LIGHTMASTER 1000 E40  
Symmetric - wide beam



MT (JM-T) 1000W E40



LIGHTMASTER 1000 E40  
Symmetric - semi intensive



MT (JM-T) 1000W E40



LIGHTMASTER 1000 E40  
Symmetric - wide beam

## Products codes

### LIGHTMASTER 1000 E40 SYMMETRIC - CLI

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
CE 70825	CRL Silver Body - Wide beam	MT (JM-T) 1000W Philips	25.50	1	20	0.0946
CE 70826	CRL Silver Body - Wide beam	MT (JM-T) 1000W Osram	25.50	1	20	0.0946
CE 70827	CRL Silver Body - Wide beam	ST (SAP-T) 1000W	25.50	1	20	0.0946
CE 70833	CRL Silver Body - Semi intensive	MT (JM-T) 1000W Philips	25.50	1	20	0.0946
CE 70834	CRL Silver Body - Semi intensive	MT (JM-T) 1000W Osram	25.50	1	20	0.0946
CE 70835	CRL Silver Body - Semi intensive	ST (SAP-T) 1000W	25.50	1	20	0.0946
70836	Silver Body - Wide beam	MT (JM-T) - ST (SAP-T) 1000W	13.50	1	20	0.0946
70837	Silver Body - Semi intensive	MT (JM-T) - ST (SAP-T) 1000W	13.50	1	20	0.0946

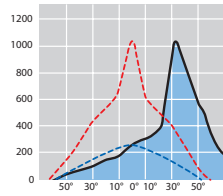
CE Floodlight with CE marking only.

☐ The versions without power electric unit are available also in insulation CL II.

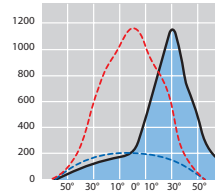
## Photometric data



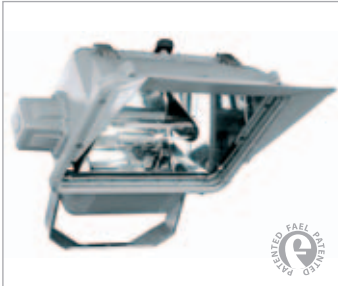
Asymmetric



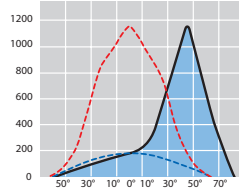
MT (JM-T) 1000W E40



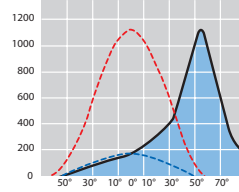
ST (SAP-T) 1000W E40



Asymmetric with anti-glare louvre



ST (SAP-T) 1000W E40



ST (SAP-T) 1000W E40



## Products codes

### LIGHTMASTER 1000 E40 ASYMMETRIC - CLI

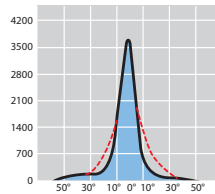
CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
☑ 70820	CRL Silver Body - Semi intensive	ST (SAP-T) 1000W	25.50	1	20	0.0946
☑ 70821	CRL Silver Body - Semi intensive	MT (JM-T) 1000W Osram	25.50	1	20	0.0946
☑ 70822	CRL Silver Body - Semi intensive	MT (JM-T) 1000W Philips	25.50	1	20	0.0946
70838	Silver Body - Semi intensive	MT (JM-T) - ST (SAP-T) 1000W	13.50	1	20	0.0946

☑ Floodlight with CE marking only.

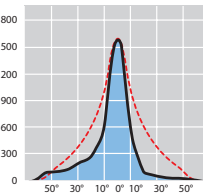
## Photometric data



Circular



MT (JM-T) 1000W E40



ST (SAP-T) 1000W E40



## Products codes

### LIGHTMASTER 1000 E40 CIRCULAR - CLI

CODE	DESCRIPTION	LAMP TYPE	WEIGHT (KG)	PACKING (PCS)	PALLET (PCS)	VOLUME
☑ 70830	CRL Silver Body - Circular	MT (JM-T) 1000W Philips	25.50	1	20	0.0946
☑ 70831	CRL Silver Body - Circular	MT (JM-T) 1000W Osram	25.50	1	20	0.0946
☑ 70832	CRL Silver Body - Circular	ST (SAP-T) 1000W	25.50	1	20	0.0946
70839	Silver Body - Circular	MT (JM-T) - ST (SAP-T) 1000W	13.50	1	20	0.0946

☑ Floodlight with CE marking only.

☐ The versions without power electric unit are available also in insulation CL II.

## Accessories and spare parts



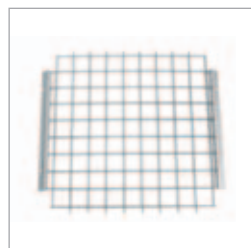
**60293-60137**  
Aluminium anti-glare louvre,  
coated in silver colour.



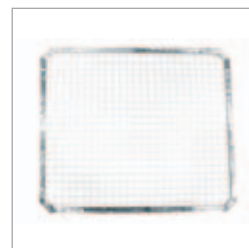
**60291**  
Circular louvre in stainless steel,  
coated in silver colour.



**60294**  
Vertical protection louvre in  
galvanized steel, coated in silver  
colour.



**60290**  
Protection grille in galvanized  
steel, coated in silver colour.



**60292**  
Safety grid in stainless steel.

### LIGHTMASTER 1000

CODE	DESCRIPTION	WEIGHT (KG)	COLOUR	LAMP TYPE	VOLUME
<b>60293</b>	Aluminium anti-glare louvre for asymmetric	0.85	Silver		0.0260
<b>60291</b>	Stainless steel circular louvre	2.43	Silver		
<b>60294</b>	Louvre for symmetrical	1.35	Silver		
<b>60290</b>	Protection grille	0.87	Silver		
<b>60292</b>	Safety grid	0.65			
<b>09263</b>	Glass				
<b>10292</b>	Osram lamp 4400K	0.30		HQI-TS 1000W/NDL/S	
<b>10293</b>	Osram lamp 6100K	0.30		HQI-TS 1000W/D/S	
<b>10294</b>	Philips lamp 4200K	0.35		MHN-LA 1000W/842 230V	
<b>10295</b>	Philips lamp 5600K	0.35		MHN-LA 1000W/956 230V	
<b>13967</b>	Philips lamp 4100K	0.35		MHN-FC 1000W/740 230V	
<b>00878</b>	Ignitor 4kV 230V 1000W	0.25			
<b>02955</b>	Ballast - 1000W 10,3A 230V	10.00			0.0026
<b>09569*</b>	Capacitor 50 µF 280V for 1000W - aluminium case	0.30			

\* Wiring box: 2 capacitors for each lamps

### LIGHTMASTER 1000 E40

CODE	DESCRIPTION	WEIGHT (KG)	COLOUR	LAMP TYPE	VOLUME
<b>60137</b>	Aluminium anti-glare louvre for asymmetric	0.50	Silver		0.0260
<b>60291</b>	Stainless steel circular louvre	2.43	Silver		
<b>60294</b>	Louvre for symmetrical	1.35	Silver		
<b>60292</b>	Safety steel grid	0.65			
<b>60290</b>	Protection grille	0.87	Silver		
<b>09263</b>	Glass				
<b>00472</b>	Osram lamp	0.40		HQI - T 1000W/D	
<b>00475</b>	Osram lamp	0.40		NAV - T 1000W	
<b>06660</b>	Philips lamp	0.40		HPI - T 1000W	
<b>07826</b>	Philips lamp	0.40		SON - T 1000W	
<b>04644</b>	Ignitor 1.2kV 230V JM Philips 1000W	0.15			
<b>06700</b>	Ballast - 1000W 8,2A 230V JM Philips	9.00			0.0018
<b>00878</b>	Ignitor 4kV 230V 1000W	0.25			
<b>02955</b>	Ballast - 1000W 10,3A 230V	10.00			0.0026
<b>09569*</b>	Capacitor 50 µF 280V for 1000W - aluminium case	0.30			
<b>09568*</b>	Capacitor 35 µF 280V for 1000W JM Philips - aluminium case	0.30			

\* Wiring box: 2 capacitors for each lamps