FH70/150/200 LED

Floodlight / Highbay

13000 lumen

General Characteristics

Equivalent Power*	70, 150, 200 W
Power supply	Universal Multi Voltage 93–265 V_{AC} 50/60 Hz 176–250 V_{DC}
Standard	EN 60598-1, EN 60598-2-1, EN 60598-2-22 (fundamental requirements), EN 62471 (Photobiological hazard)
Protection grade	IP66 with ventilation valve, IK09
Working temp.	-30 ÷ +50 °C (****)
Mounting	on the ground, wall, spotlight towers, suspension, ceiling
Housing	Polyester powder coated die-cast aluminium RAL 7040 grey
Optic	Sheet metal with parabolic development in anti-iridescent, mirror finished, anodised aluminium. Symmetrical Asymmetrical
Diffuser	Prismatic toughened glass 4 mm thick
Driver	SELV electronic SD (cos φ ≥ 0.97) with intelligent dimming
MTFB Control gear**	100 000 h
Luminous flux maintenance**	60 000 h (1× 200) (L80B20) 70 000 h (1× 150) (L80B20) 80 000 h (1× 70) (L80B20)
Colour deviation	3 SDCM

* Equivalent power for comparison with metal halide fixtures

** At environmental reference temperature of 25 °C

**** At highest working temperature thermal protection may reduce the output power.

FH70, FH150 e FH200 LED are fixtures of the latest generation able to combine the advantages of the LED light source with state-of-theart optic systems, as regards both performance and flexibility of application. The LED sources used, with very high efficiency, produce unprecedented lighting that allows the illumination of building façades or hardstands, even at considerable distance. The diffuser has an ample and uniform area of emission, allowing very low luminosity and therefore reduced glare with high visual comfort. The excellent mechanical characteristics (IP66-IK09) allow installation in outdoor settings even in extreme conditions, while the possibility of versions with a symmetrical or asymmetrical beam makes the fixture particularly versatile.

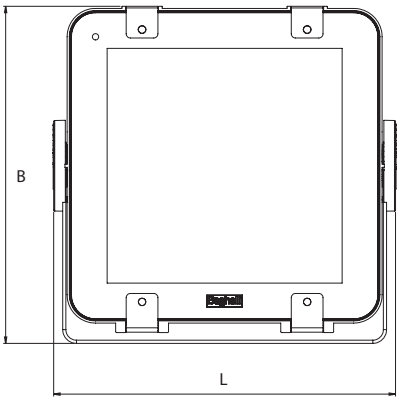
The "square cut" design of the FH 70/150/200 LED allows movements through 360°, on the axis of rotation of the goniometric bracket, thus enabling great flexibility of movement and mounting.

Thanks to the "Autodimmer Sensor" accessory, the fixture works with intelligent dimming. To ensure maximum energy saving, self-adapting technology is used on the sensor integrated in the fixture, to automatically adjust the emission of light according to the reading of the natural light present on the work surface.

A LED INVERTER is also available which transforms the fixture into an emergency maintained fixture, to light a section of the LED source in the event of a black-out.

Floodlight with a controlled beam to optimize the management of the light emitted. Symmetrical and asymmetrical optics in a single fixture: the beam of light changes from asymmetrical to symmetrical by simply removing part of the optic.

PLUG&LIGHT · GYM · NO FLICKER · IP66 · IK09 · UV-OIL · 960°C



Power * W	• Dimensions (mm) • L	B	H	Weight max. kg
70, 150, 200	323	319	116	4

Accessories — supplied

Order code	Description
–	ANTI-VANDAL SCREWS
–	GONIOMETRIC BRACKET
418319000	CABLE GLAND M20 WITH VENTILATION VALVE

Accessories SD — supplied

Order code	Description
15039	OPTICOM PHOTOSENSOR

Accessories — to be ordered separately

Order code	Description
12659	ELECTRIFIED RAIL FIXING BRACKET
12664	CEILING FIXING BRACKET
12661	POST HEAD 2× 60-76
12662	POST HEAD 4× 60-76
12663	FLOODLIGHT SUSPENSION CABLE
12657	PROTECTIVE GRID

Building automation SD — to be ordered separately

Order code	Description
20102	BUILDING AUTOMATION CENTRAL UNIT
20124	BUILDING AUTOMATION CENTRAL UNIT WIFI
20104	2 INPUT INTERFACE – RADIO TRANSMITTER
15022	BUILDING AUTOMATION RADIO MODULE
15024	DALI MODULE
15034	1-10V MODULE

DOMOTIC RADIO MODULE

1÷10V MODULE

DALI MODULE

PLUG&LIGHT MODULE

OPTIONAL MODULES TO EXTEND BEGHELLI SD TO RADIO CONTROL OR DALI / 1-10V SYSTEMS AND EMERGENCY

INTELLIGENT PHOTOSENSOR

1. Autodimmer Natural Light

GROUND MOUNTING

WALL MOUNTING

SUSPENDED MOUNTING

GONIOMETRIC BRACKET

12663 FLOODLIGHT SUSPENSION CABLE

VERSION WITH ASYMMETRICAL OPTIC

Floodlight with divisible modules

The optic system has been created so as to obtain both a symmetrical and an asymmetrical beam. The light source can operate in symmetrical mode by removing part of the louvre.

Efficiency and dimming

The increase in luminous efficacy (lm/W) and the useful life of the device may vary significantly according to the degree to which it is dimmed. Assuming an average level of 50% of the luminous flux, the following results are obtained with the FH70/150/200 LED:

Dimming SD	50 %
Device duration	+40 %
Luminous efficiency	+10 %

SPECIAL VARIANTS: COLOUR TEMPERATURE ON REQUEST
Contact the Beghelli sales network

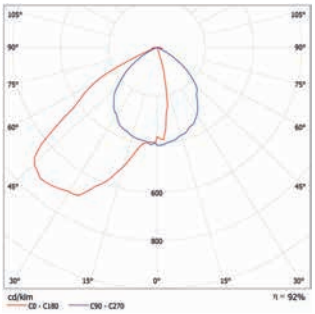
INVERTER

EMERGENCY WITH LED INVERTER

TR AT LG LGFM

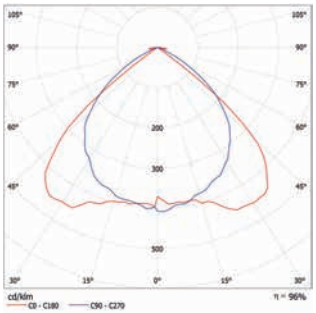
19368	INVERTER PLUG&LIGHT LED SE/SA 3H 20-60V IP65	to be ordered separately
19364	INV LED IP65 AT/LG 123H (addressable)	to be ordered separately
19365	INV LED IP65 LGFM 123H (addressable)	to be ordered separately

Polar Diagram



Asymmetrical optic

Polar Diagram



Symmetrical optic

FH70/150/200 LED

SmartDriver SD

Power* W	Order code	Description	Optic	LED Power W	Colour Temp. K	Colour rendering	Power consumption max. W	N°LEDs	Flux of LEDs lm (Tj=25°C)	Flux of fixture lm	lm/W	Energy Class	Packaging
70	**FH70SD**	PRO/RIF LED 1x70 SD 4K	SYM / ASYM	39	4 000	>80	45	108	7 000	6 300	140	A++	1
150	**FH150SD**	PRO/RIF LED 1x150 SD 4K	SYM / ASYM	68	4 000	>80	74 (56***)	180	12 000	10 000	137	A++	1
200	**FH200SD**	PRO/RIF LED 1x200 SD 4K	SYM / ASYM	86	4 000	>80	98	192	16 350	13 000	132	A++	1