



TECHNICAL SPECIFICATIONS

PRODUCT REFERENCE

Environment	Outdoor
Installation	Ground / Wall Surface

CONSTRUCTION & MATERIALS

Housing	Extruded Aluminium Light Head
Housing	Aluminium Die Cast Body
Lens or Diffuser	Clear Tempered Glass
Finish Standard	Anti Ageing Powder Coated Grey

THERMAL MANAGEMENT

Heat Sink Material	Aluminium
Cooling Technique	Passive

OPTICAL SYSTEM

Beam Angles (FWHM)°	Spot (16), Medium (24), Wide (44)
Beam Direction	Fixed
Tilt	Yes
Swivel	No

ELECTRICAL SYSTEM

Driven With	Constant Current Driver
Input Voltage	220V-240V
Input Power	20.70w
ATHD	<10%
Control Gear Mounting	Integral



DIMMING

Dimming Options Consult ABBY Representative

LED TECHNOLOGY

Led Fitted	CREE
Lumen Output System (Delivered)*	1705 1774 1825
Efficacy (System - lm/watt)*	82 86 88
Co-related Colour Temp.	3000K 4000K 6000K
Led Life Time @ L70 / B10	50,000 hours
Colour Rendering CRI	>80
Driven Constant Current	700mA
Output Voltage	27v

ORDERING INFORMATION

While ordering mention **one code from each** of the following columns

PRODUCT CODE	LED COLOUR	BEAM ANGLE	FINISH	DIMMING OPTION
GRASSHOPPER R9 22W	Warm White 3000K WW30K	Spot (16) SS	Grey	Non Dimmable
	Neutral White 4000K NW40K	Medium (24) MD		1-10v Dimmable Driver A Dim
	Cool White 6000K CW60K	Wide (44) WD		Phase Dimmable Driver PC Dim
				Dali Dimmable Driver D Dim

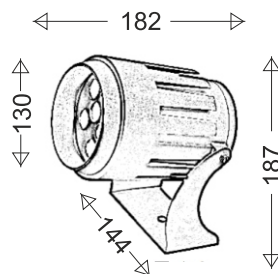
GRASSHOPPER R9 22W - CW60K - MD - -

This is the ordering code for a GRASSHOPPER R9 22W in Cool White, Medium Beam, Grey Finish, and Non Dimmable Driver.

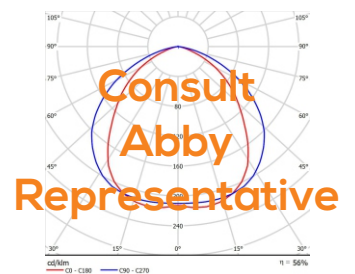
INSTALLATION

Brackets (Provided)

LINE DRAWING



PHOTOMETRY



Abby tries to ensure all data and information is correct at the time of publication. Data provided is for information purposes only. *Output data figures stated are typical values Medium Beam.