

# GrassHopper | 12W

## Product Reference

Environment Outdoor  
 Installation Ceiling Surface, Floor Surface, Wall Surface, Wall Surface

## Construction & Materials

Housing Die Cast Aluminium  
 Primary Lens PMMA  
 Primary Reflector -  
 Secondary Reflector -  
 Body Finish Black, Grey  
 Diffuser -  
 Antiglare Baffle -

## Thermal Management

Heat Sink Material Die cast Aluminium  
 Cooling Technique Passive Cooling

## Optical System

Beam Direction Adjustable  
 Tilt Yes  
 Swivel No

## Electrical System

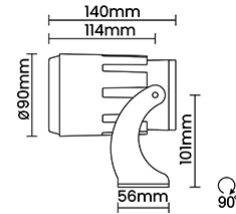
Driven with Constant Current Driver  
 Input Voltage/Hz 220V- 240V/50-60Hz  
 Control Gear Included  
 Mounting Integral  
 LED Power Watts 10.6W  
 System Power Watts 12.2W  
 Operating Voltage Vin 220-240 Vac  
 Power Factor p.f. > 0.95

## Ordering Details

Code Example:	Name	Watt	CCT	CRI	Angle	Finish	Control
	<b>GrassHopper</b>	<b>12W</b>	<b>WW27K</b>	<b>CRI90</b>	<b>16°(SS)</b>	<b>SBL</b>	<b>On/Off</b>

Select one from each column with highlighted values to create the ordering code

NAME	WATT	LUMEN	EFFICACY	CCT	CRI	ANGLE	FINISH	CONTROL
<b>GrassHopper</b>	<b>12W</b>	1013	83	2700K	<b>WW27K</b>	<b>CRI90</b>	16°(SS)	Black <b>SBL</b> Non Dimmable <b>On/Off</b>
		1049	86	3000K	<b>WW30K</b>		25°(MD)	Grey <b>GGT</b>
		1098	90	4000K	<b>NW40K</b>		46°(WD)	
		1122	92	5700K	<b>CW57K</b>			
<b>GrassHopper</b>	<b>12W</b>			<b>WW27K</b>	<b>CRI90</b>	<b>16°(SS)</b>	<b>SBL</b>	<b>On/Off</b>



## Light Distribution

## LED Technology

Binning 2 Step MacAdam  
 LED Life Time @ L80/B10 >50000 hours  
 Colour Rendering (CRI) CRI90  
 Led Type SMD high power  
 LED Fitted Osram LED 12V-15Vdc/700mA

## Controls

Standard Switchable On/Off  
 Optional Non Dimmable