

AR111 G53, 12W, 30°

LED AR111 bulbs

CHARACTERISTICS

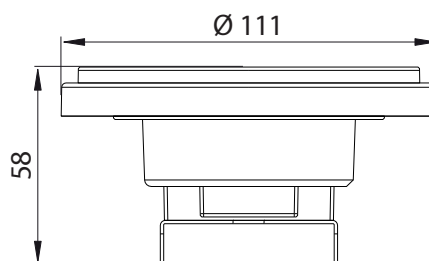
- light source with a 30° angle of distribution°
- light source type: directional, non-powered directly with mains voltage
 - light emitting components: LEDs SMD type
- use: spot lighting in living quarters and in public interiors and the creation of lighting accents for the illumination of exhibits in museums, art galleries or objects in shop windows

CONSTRUCTION

- lenticular, transparent plastic diffuser artificial
- housing - upper part made of aluminium
 - lower part made of polycarbonate (PC)
- housing colour versions:
 - upper part white, lower part white
 - upper part silver, lower part grey
 - upper part black, lower part black
- G53 handle



overall dimensions (mm)



TECHNICAL SPECIFICATIONS

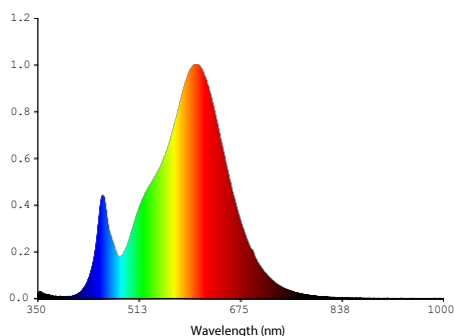
Model	AR111 G53, 12W, 30°, CB			AR111 G53, 12W, 30°, NB		
	ZL-A33012-10	ZL-A33012-91	ZL-A33012-00	ZL-A43012-10	ZL-A43012-91	ZL-A43012-00
Index	ZL-A33012-10	ZL-A33012-91	ZL-A33012-00	ZL-A43012-10	ZL-A43012-91	ZL-A43012-00
Power	12,0 W	12,0 W	12,0 W	12,0 W	12,0 W	12,0 W
Shank	G53	G53	G53	G53	G53	G53
Supply voltage	12V AC/DC	12V AC/DC	12V AC/DC	12V AC/DC	12V AC/DC	12V AC/DC
Light distribution angle	30°	30°	30°	30°	30°	30°
Type of LED	SMD	SMD	SMD	SMD	SMD	SMD
Colour of light	warm white	warm white	warm white	neutral white	neutral white	neutral white
Colour temperature	3000K	3000K	3000K	4000K	4000K	4000K
Colour rendering index (CRI)	≥ 80	≥ 80	≥ 80	≥ 80	≥ 80	≥ 80
Useful luminous flux (Φuse) in a narrow cone (90°)	1100 lm	1100 lm	1100 lm	1100 lm	1100 lm	1100 lm
Rated life	25000 h	25000 h	25000 h	25000 h	25000 h	25000 h
Declaration of equivalent power	157 W	157 W	157 W	157 W	157 W	157 W
Lamp warm-up time up to 60% lumen output	<0,5s	<0,5s	<0,5s	<0,5s	<0,5s	<0,5s
Number of on/off cycles	15000	15000	15000	15000	15000	15000
Operating temperature Ta	-10°C - +40°C	-10°C - +40°C	-10°C - +40°C	-10°C - +40°C	-10°C - +40°C	-10°C - +40°C
Dimmable	not	not	not	not	not	not
Mercury content (Hg)	0.0mg	0.0mg	0.0mg	0.0mg	0.0mg	0.0mg
Housing colour	white	silver	black	white	silver	black
Mass	194g	194g	194g	194g	194g	194g

AR111 G53, 12W, 30°

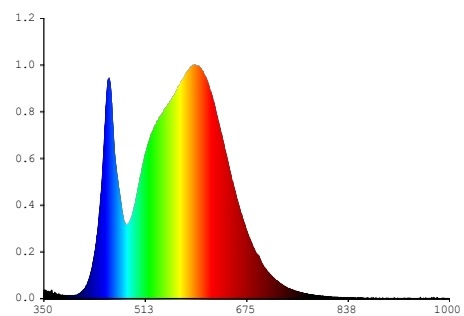
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Index	ZL-A33012-10	ZL-A33012-91	ZL-A33012-00	ZL-A43012-10	ZL-A43012-91	ZL-A43012-00
Housing colour	white	silver	black	white	silver	black
TYPE OF LIGHT SOURCE						
Lighting technology used	LED			LED		
Non-directional or directional light source	directional - DSL			directional - DSL		
Mains-powered or non-powered light source	not supplied by mains voltage - NMLS			not supplied by mains voltage - NMLS		
Light source stem type (or other electrical connector)	G53 handle			G53 handle		
Combined light source (CLS)	not			not		
Colour changeable light source	not			not		
High luminance light source	not			not		
Light shield	not			not		
Dimming function:	not			not		
GENERAL PRODUCT PARAMETERS						
Energy consumption in ON mode (kWh/1000h)	12 kWh/1000h			12 kWh/1000h		
Energy efficiency class	F			F		
Useful luminous flux (Φuse) in a narrow cone (90°)	1100 lm			1100 lm		
Correlated colour temperature	3000K			4000K		
Power in ON mode (Pon)	12,0 W			12,0 W		
Standby power (Psb)	0,00 W			0,00 W		
Standby power when connected to mains (Pnet) for CLS	not applicable			not applicable		
Colour rendering index	≥80			≥80		
Height x width x depth	58 mm x 111 mm x 111 mm			58 mm x 111 mm x 111 mm		
Declaration of equivalent power	157 W			157 W		
Chromaticity coordinates (x; y)	x: 0,440; y: 0,403			x: 0,380; y: 0,380		
PARAMETERS OF DIRECTIONAL LIGHT SOURCES						
Peak luminosity (cd)	4002			3602		
Radiation angle	30°			30°		
LED and OLED LIGHT source PARAMETERS						
Colour rendering index R9	8			9		
Durability factor	0,90			0,90		
Lumen maintenance factor	≥ 0,96			≥ 0,96		

➤ POWER SPECTRAL DISTRIBUTION AT FULL LOAD



AR111 G53, 12W, NB - 3000K



AR111 G53, 12W, NB - 4000K