



# The AR111 LED is ideal solution for spot lighting in shops

## AR111 LED

Delivering a warm, halogen-like accent beam, the AR111 LED is an ideal retrofit solution for spot and general lighting applications in the hospitality and retail industry. It is particularly suitable for general lighting where the light is on all the time, such as creative accent lighting applications in shops, restaurants, hotels, and especially for galleries, exhibitions and museums. The robustly designed MASTER LEDspot LV AR111 offers various beam angles for a clearly defined beam spread. There is no UV or IR in the beam, making it suitable for illuminating heat-sensitive objects (food, organic materials, paintings, etc.). The patented intelligent driver enables broad compatibility with existing electromagnetic and electronic halogen transformers. MASTER LEDspot LV AR111 delivers huge energy savings and minimizes maintenance cost without any reduction in brightness.

### Benefits

- Up to 80% energy saving compared with halogen lamps
- Broad compatibility with transformers
- Retrofittable

### Features

- Patented intelligent driver
- Lifetime of 45,000 hours
- Low energy consumption
- Clearly defined beam spread
- UV- and IR-free light for less heat and protection for heat-sensitive objects

# AR111 LED

## Application

- Shops, hotels, restaurants, bars, cafés
- Galleries, museums, exhibitions, lobbies, corridors, stairwells, washrooms, reception areas

## Versions

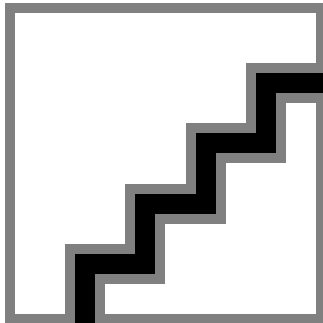


G53 AR111



G53.AR111

## Dimensional drawing



Product	D	C
12AR111/LED/930/S8 DIM 12V FB 1PK 6/1	111 mm	62 mm
12AR111/LED/927/S8 DIM 12V FB 1PK 6/1	111 mm	62 mm
20AR111/LED/827/F25 DIM 12V FB 1PK 6/1	111 mm	62 mm
20AR111/LED/830/F25 DIM 12V FB 1PK 6/1	111 mm	62 mm
16AR111/LED/930/F25 DIM 12V FB 1PK 6/1	111 mm	62 mm
16AR111/LED/927/F40 DIM 12V FB 1PK 6/1	111 mm	62 mm
20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	111 mm	62.3 mm
16AR111/LED/927/F25 DIM 12V FB 1PK 6/1	111 mm	62 mm

### Controls and Dimming

Dimmable	Yes
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### Operating and Electrical

Voltage (Nom)	12 V
Starting Time (Nom)	0.5 s

### General Information

Cap-Base	G53
Switching Cycle	50000X

### Light Technical

Llmf At End Of Nominal Lifetime (Nom)	70 %
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### Mechanical and Housing

Bulb Shape	AR111
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# AR111 LED

## Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	-	-
460139	20AR111/LED/827/F25/DIM 12V 6/1	- kWh	Not applicable

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Energy Efficiency Label (EEL)
463778	12AR111/LED/927/S8 DIM 12V FB 1PK 6/1	- kWh	Not applicable

## Operating and Electrical

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	100 W	20 W
460139	20AR111/LED/827/F25/DIM 12V 6/1	100 W	20 W

Order Code	Full Product Name	Wattage Equivalent	Power (Rated) (Nom)
463778	12AR111/LED/927/S8 DIM 12V FB 1PK 6/1	50 W	11 W

## General Information

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	25000 h	25000 h
460139	20AR111/LED/827/F25/DIM 12V 6/1	25000 h	25000 h

Order Code	Full Product Name	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
463778	12AR111/LED/927/S8 DIM 12V FB 1PK 6/1	40000 h	40000 h

## Light Technical (1/2)

Order Code	Full Product Name	Beam Angle (Nom)	Color Code	Correlated Color Temperature (Nom)	Color Rendering Index (Nom)	Light Distribution	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	15 °	830	3000 K	80	15D	1280 lm	1280 lm
460139	20AR111/LED/827/F25/DIM 12V 6/1	25 °	827	2700 K	80	25D	1240 lm	1240 lm
463778	12AR111/LED/927/S8 DIM 12V FB 1PK 6/1	8 °	927	2700 K	90	-	600 lm	-

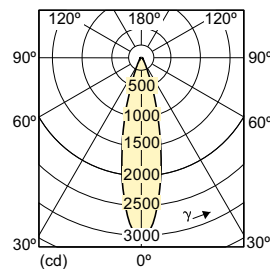
## Light Technical (2/2)

Order Code	Full Product Name	Luminous Intensity (Nom)	Rated Beam Angle
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	10000 cd	15 °
460139	20AR111/LED/827/F25/DIM 12V 6/1	5600 cd	25 °

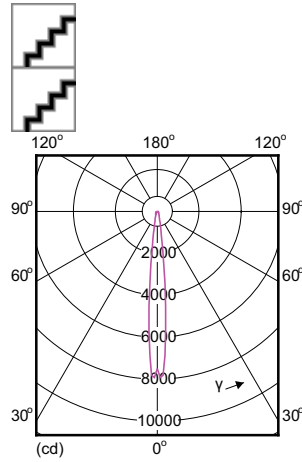
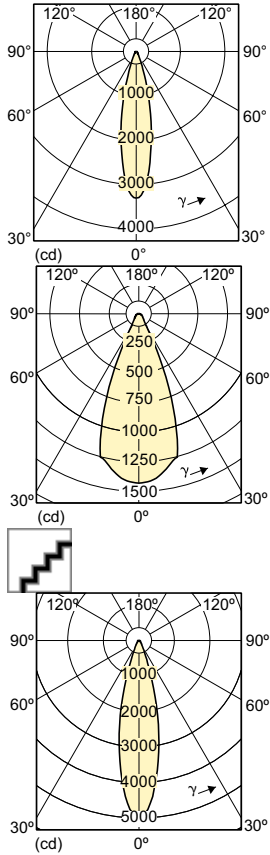
Order Code	Full Product Name	Luminous Intensity (Nom)	Rated Beam Angle
463778	12AR111/LED/927/S8 DIM 12V FB 1PK 6/1	7800 cd	8 °

## Temperature

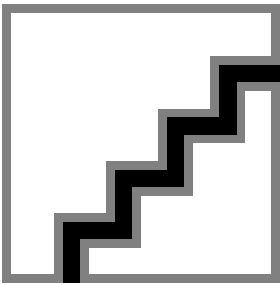
Order Code	Full Product Name	T-Case Maximum (Nom)
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	80 °C
460139	20AR111/LED/827/F25/DIM 12V 6/1	80 °C
463778	12AR111/LED/927/S8 DIM 12V FB 1PK 6/1	65 °C



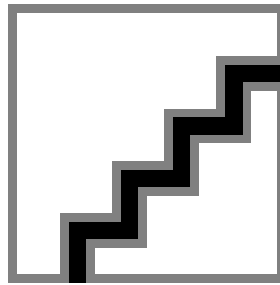
# AR111 LED



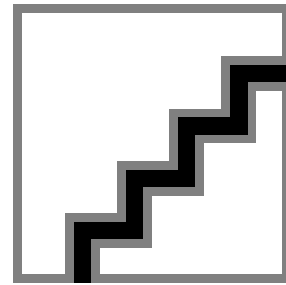
## Accent Diagrams



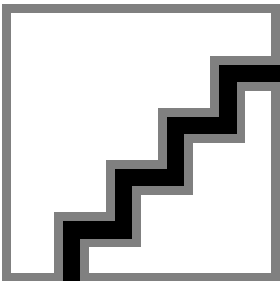
SDAC\_LEDspotL\_0136-Accent diagram



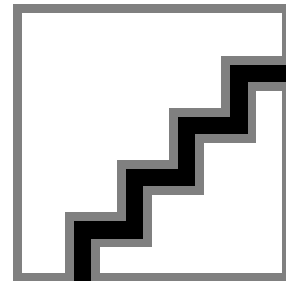
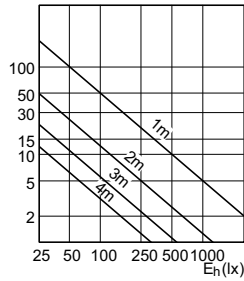
SDAC\_LEDspotL\_0137-Accent diagram



SDAC\_LEDspotL\_0138-Accent diagram

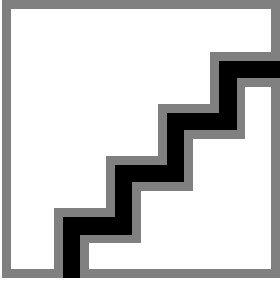


SDAC\_LEDspotL\_0143-Accent diagram

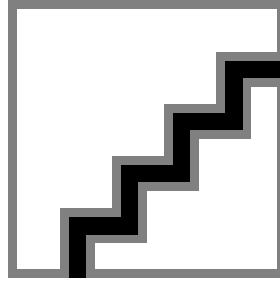


LEDspot, LEDspotLV 20-100W AR111 830 24D

## Accent Diagrams

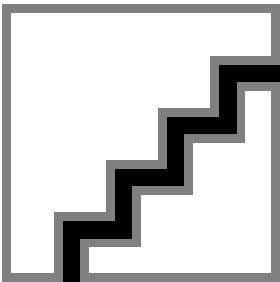


LED Lamps, MAS LEDspotLV D 11-50W AR111  
G53 827 8D

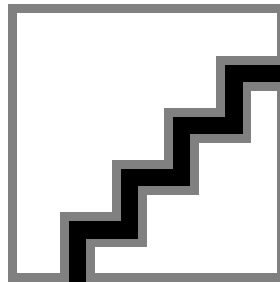


LED Lamps, MAS LEDspotLV D 11-50W AR111  
G53 830 8D

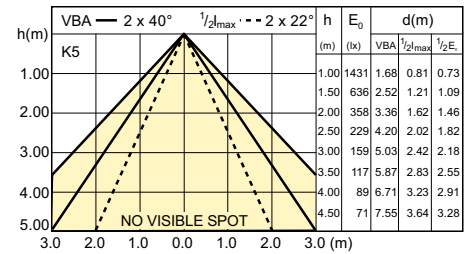
## Beam Diagrams



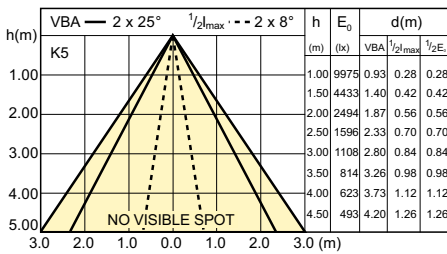
SDBE\_LEDspotL\_0136-Beam diagram



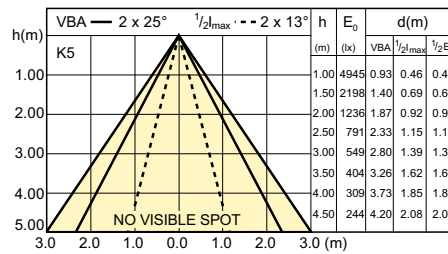
SDBE\_LEDspotL\_0137-Beam diagram



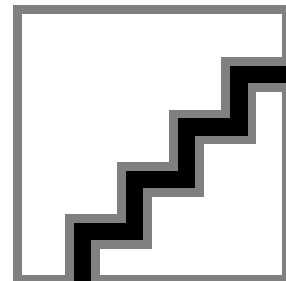
SDBE\_LEDspotL\_0138-Beam diagram



SDBE\_LEDspotL\_0143-Beam diagram



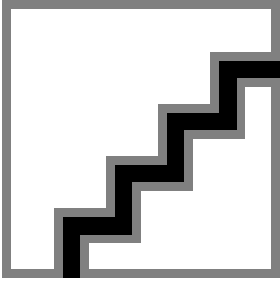
SDBE\_LEDspotL\_0140-Beam diagram



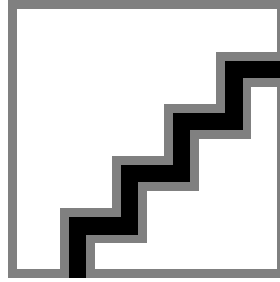
LEDspot, LEDspotLV 20-100W AR111 830 24D

## AR111 LED

### Beam Diagrams



LED Lamps, MAS LEDspotLV D 11-50W AR111  
G53 827 8D



LED Lamps, MAS LEDspotLV D 11-50W AR111  
G53 830 8D

