



The AR111 LED is ideal solution for spot lighting in shops

MASTER LEDspot LV AR111

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

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Application

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

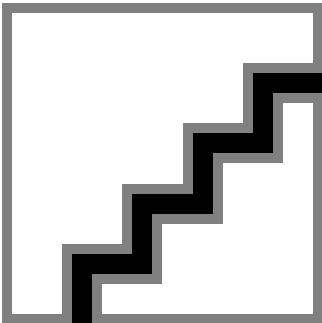
Versions



G53 AR111

G53 AR111

Dimensional drawing



Product	D	C
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
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 %
Mechanical and Housing	
Bulb Shape	AR111

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Approval and Application

Order Code	Full Product Name	Energy	Energy
		Consumption kWh/ 1000 h	Efficiency Label (EEL)
460147	16AR111/LED/927/F25 DIM 12V FB 1PK 6/1	- kWh	Not applicable
458554	16AR111/LED/930/F25 DIM 12V 6/1	- kWh	Not applicable
460154	16AR111/LED/927/F40 DIM 12V FB 1PK 6/1	- kWh	Not applicable

Order Code	Full Product Name	Energy	Energy
		Consumption kWh/ 1000 h	Efficiency Label (EEL)
460139	20AR111/LED/827/F25/DIM 12V 6/1	- kWh	Not applicable
458570	20AR111/LED/830/F25 DIM 12V 6/1	-	-
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	-	-

Operating and Electrical

Order Code	Full Product Name	Wattage	Power (Rated)
		Equivalent	(Nom)
460147	16AR111/LED/927/F25 DIM 12V FB 1PK 6/1	75 W	15 W
458554	16AR111/LED/930/F25 DIM 12V 6/1	75 W	15 W
460154	16AR111/LED/927/F40 DIM 12V FB 1PK 6/1	75 W	15 W

Order Code	Full Product Name	Wattage	Power (Rated)
		Equivalent	(Nom)
460139	20AR111/LED/827/F25/DIM 12V 6/1	100 W	20 W
458570	20AR111/LED/830/F25 DIM 12V 6/1	100 W	20 W
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	100 W	20 W

General Information

Order Code	Full Product Name	Nominal	Rated Lifetime
		Lifetime (Nom)	(Hours)
460147	16AR111/LED/927/F25 DIM 12V FB 1PK 6/1	40000 h	40000 h
458554	16AR111/LED/930/F25 DIM 12V 6/1	40000 h	40000 h
460154	16AR111/LED/927/F40 DIM 12V FB 1PK 6/1	40000 h	40000 h

Order Code	Full Product Name	Nominal	Rated Lifetime
		Lifetime (Nom)	(Hours)
460139	20AR111/LED/827/F25/DIM 12V 6/1	25000 h	25000 h
458570	20AR111/LED/830/F25 DIM 12V 6/1	25000 h	25000 h
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	25000 h	25000 h

Light Technical (1/2)

Order Code	Full Product Name	Beam Angle (Nom)	Color Code	Correlated Color Temperature (Nom)	Color	Light Distribution	Luminous Flux (Nom)	Luminous Flux (Rated) (Nom)
					Rendering Index (Nom)			
460147	16AR111/LED/927/F25 DIM 12V FB 1PK 6/1	25 °	927	2700 K	90	25D	740 lm	740 lm
458554	16AR111/LED/930/F25 DIM 12V 6/1	25 °	930	3000 K	90	25D	780 lm	780 lm
460154	16AR111/LED/927/F40 DIM 12V FB 1PK 6/1	40 °	927	2700 K	90	40D	740 lm	740 lm
460139	20AR111/LED/827/F25/DIM 12V 6/1	25 °	827	2700 K	80	25D	1240 lm	1240 lm
458570	20AR111/LED/830/F25 DIM 12V 6/1	25 °	830	3000 K	80	25D	1280 lm	1280 lm
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	15 °	830	3000 K	80	15D	1280 lm	1280 lm

Light Technical (2/2)

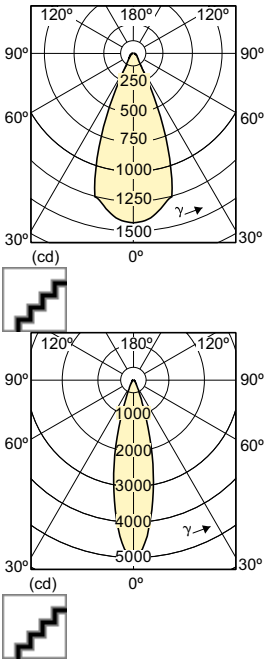
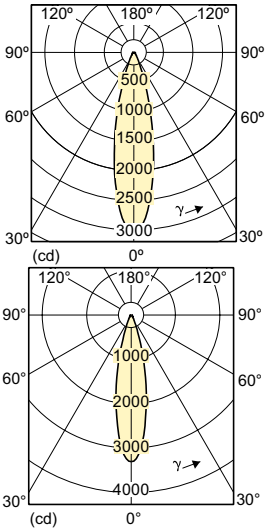
MASTER LEDspot LV AR111

Order Code	Full Product Name	Luminous Intensity (Nom)	Rated Beam Angle
460147	16AR111/LED/927/F25 DIM 12V FB 1PK 6/1	3800 cd	25 °
458554	16AR111/LED/930/F25 DIM 12V 6/1	4000 cd	25 °
460154	16AR111/LED/927/F40 DIM 12V FB 1PK 6/1	1400 cd	40 °

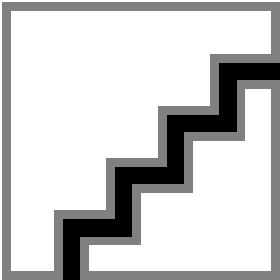
Order Code	Full Product Name	Luminous Intensity (Nom)	Rated Beam Angle
460139	20AR111/LED/827/F25/DIM 12V 6/1	5600 cd	25 °
458570	20AR111/LED/830/F25 DIM 12V 6/1	5800 cd	25 °
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	10000 cd	15 °

Temperature

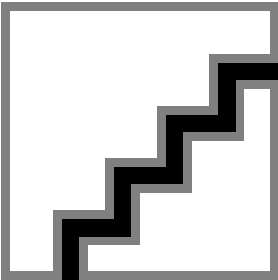
Order Code	Full Product Name	T-Case Maximum (Nom)
460147	16AR111/LED/927/F25 DIM 12V FB 1PK 6/1	74 °C
458554	16AR111/LED/930/F25 DIM 12V 6/1	74 °C
460154	16AR111/LED/927/F40 DIM 12V FB 1PK 6/1	74 °C
460139	20AR111/LED/827/F25/DIM 12V 6/1	80 °C
458570	20AR111/LED/830/F25 DIM 12V 6/1	80 °C
458562	20AR111/LED/830/F15 DIM 12V FB 1PK 6/1	80 °C



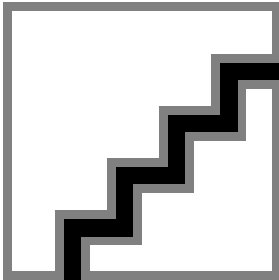
Accent Diagrams



SDAC_LEDspotL_0136-Accent diagram

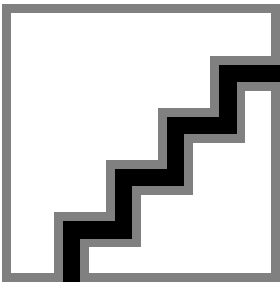


SDAC_LEDspotL_0137-Accent diagram

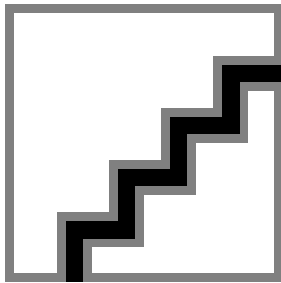
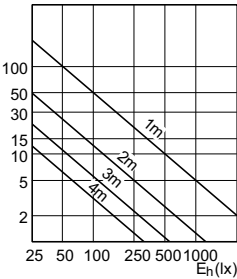


SDAC_LEDspotL_0138-Accent diagram

Accent Diagrams

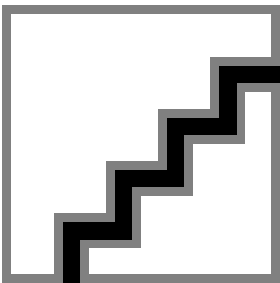


SDAC_LEDspotL_0143-Accent diagram

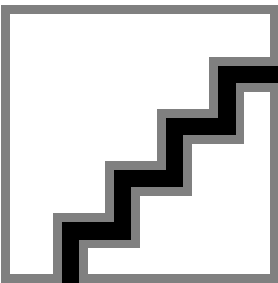


LEDspot, LEDspotLV 20-100W AR111 830 24D

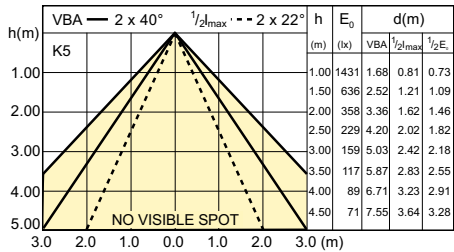
Beam Diagrams



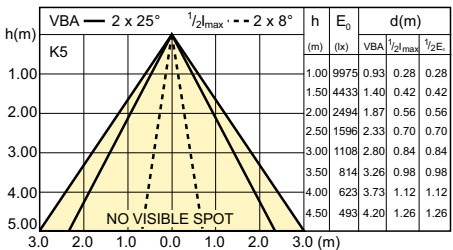
SDBE_LEDspotL_0136-Beam diagram



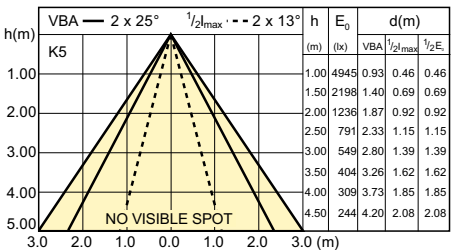
SDBE_LEDspotL_0137-Beam diagram



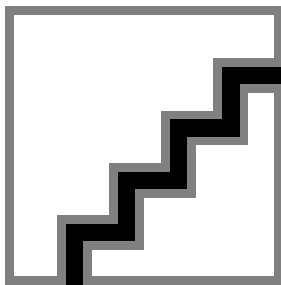
SDBE_LEDspotL_0138-Beam diagram



SDBE_LEDspotL_0143-Beam diagram



SDBE_LEDspotL_0140-Beam diagram



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