



Highly energy-efficient spot of crisp white light

MASTERLine ES

Low-voltage halogen burner with very high energy efficiency and long lifetime thanks to IRR coating in glass reflector. Ideal solution for small decorative luminaires, putting your objects in the spotlight. Dichroic coating prevents heat transmission onto the object.

Benefits

- Bright, sparkling halogen light to put your objects in the spotlight
- Fully dimmable, from 0 to 100%, to meet different brightness requirements
- Lowest replacement cost due to extra long lifetime

Features

- Superior quality of light with excellent color rendering (Ra=100)
- Dichroic coating
- Lifetime: 5000 hours
- Universal burning position
- Instant start

Application

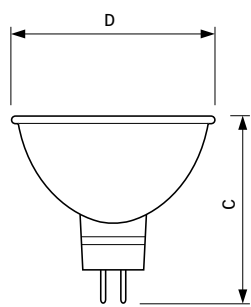
- Spot accent lighting to create the right ambiance in hotels, restaurants and shops

MASTERLine ES

Versions



Dimensional drawing



Product	D (max)	C1 (max)
MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	51 mm	50.5 mm
MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	51 mm	50.5 mm

MASTERLine ES

Approval and Application	
Energy Efficiency Label (EEL)	B
Controls and Dimming	
Dimmable	Yes
Operating and Electrical	
Voltage (Nom)	12 V
Starting Time (Nom)	0.0 s
Warm Up Time To 60% Light (Nom)	instant full light
General Information	
Cap-Base	GU5.3
Nominal Lifetime (Nom)	5000 h
Operating Position	UNIVERSAL
Rated Lifetime (Hours)	5000 h
Switching Cycle	20000X
Light Technical	
Correlated Colour Temperature (Nom)	3000 K
Colour Rendering Index (Nom)	100
Llmf At End Of Nominal Lifetime (Min)	80 %
Mechanical and Housing	
Bulb Shape	MR16

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h
41375871	MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	32 kWh
41397071	MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	37 kWh
42444071	MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	48 kWh
42447171	MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	48 kWh

Operating and Electrical

Order Code	Full Product Name	Lamp Current (Nom)	Wattage Equivalent	Power (Rated) (Nom)
41375871	MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	3 A	50 W	30.0 W
41397071	MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	2.92 A	56 W	35.0 W

Order Code	Full Product Name	Lamp Current (Nom)	Wattage Equivalent	Power (Rated) (Nom)
42444071	MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	3.75 A	68 W	45.0 W
42447171	MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	3.75 A	68 W	45.0 W

General Information

Order Code	Full Product Name	Philips Code
41375871	MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	18135
41397071	MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	18139

Order Code	Full Product Name	Philips Code
42444071	MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	18144
42447171	MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	18145

Luminaire Design Requirements

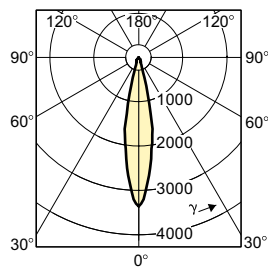
Order Code	Full Product Name	Bulb Temperature (Max)
41375871	MASTERLine ES 30W GU5.3 12V 24D 1CT/4X5F	380 °C
41397071	MASTERLine ES 35W GU5.3 12V 24D 1CT/4X5F	380 °C

Order Code	Full Product Name	Bulb Temperature (Max)
42444071	MASTERLine ES 45W GU5.3 12V 36D 1CT/4X5F	410 °C
42447171	MASTERLine ES 45W GU5.3 12V 60D 1CT/4X5F	410 °C

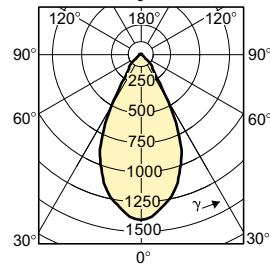
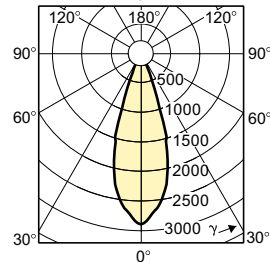
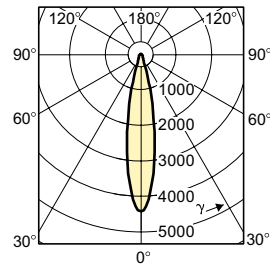
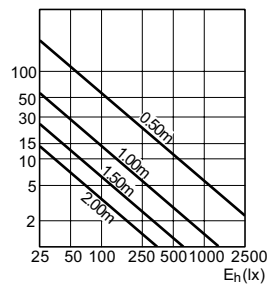
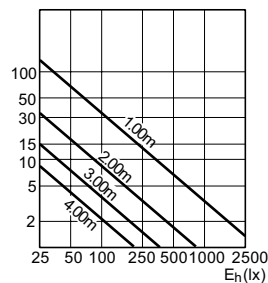
Light Technical

MASTERLine ES

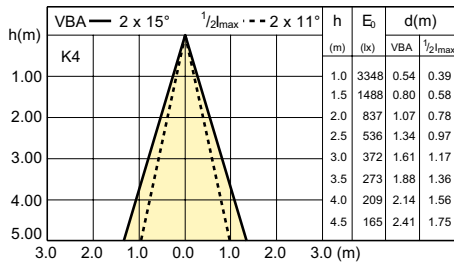
Order Code	Full Product Name	Beam Angle (Nom)	Luminous Flux (Rated) (Nom)	Luminous Intensity (Max)	Rated Beam Angle
41375871	MASTERLine ES 30W GU5.3 12V 24D 1CT/ 4X5F	24 °	540 lm	3150 cd	24 °
41397071	MASTERLine ES 35W GU5.3 12V 24D 1CT/ 4X5F	24 °	640 lm	4100 cd	24 °
42444071	MASTERLine ES 45W GU5.3 12V 36D 1CT/ 4X5F	36 °	830 lm	2850 cd	36 °
42447171	MASTERLine ES 45W GU5.3 12V 60D 1CT/ 4X5F	60 °	830 lm	1300 cd	60 °



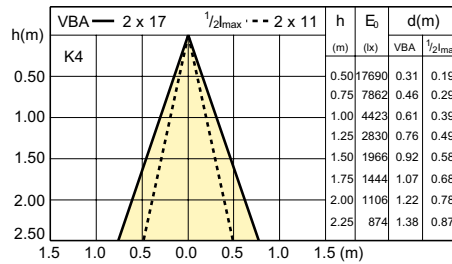
Accent Diagrams



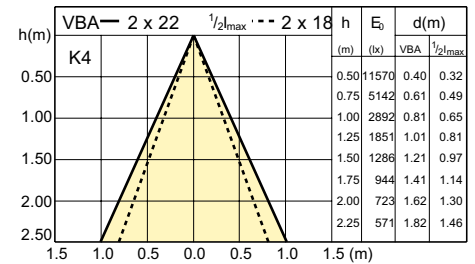
Beam Diagrams



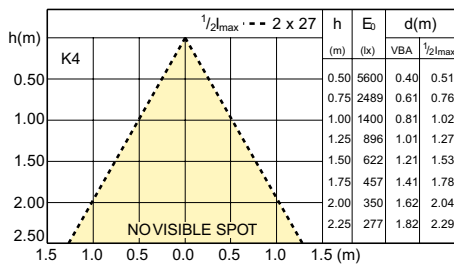
LDBE_HMLES_30W_24D-Beam diagram



LDBE_HMLES_35W_24D-Beam diagram



LDBE_HMLES_45W_36D-Beam diagram



LDBE_HMLES_45W_60D-Beam diagram

