



# Brighten your outlook

## Long Life MR-16

Philips Halogen Long Life MR16 lamps make it easy to optimize the look and feel of your brand, your merchandise, and the shoppers experience, with lower operating costs.

### Benefits

- Maximum efficiency for reduced energy consumption.
- Consistent coating quality lamp-to-lamp and throughout lifetime.
- Extended lifetime for reduced maintenance.

### Features

- Optimized Coil, Burner and Reflector Design- Has maximum efficiency for reduced energy consumption and provides bright, white light and superior beam quality.
- Up To 20 Layers of Dichroic Coating-Consistent coating quality lamp to lamp and throughout lifetime.
- UV Block-Reduces color fading.
- Provides 6000 hours rated average life†, constant color and extra protection with UV Block and front glass.††
- Universal Burning Position.
- Available in 20, 35, and 50 watts Spot, Flood and Narrow Flood, 75 watt is only available in Spot and Flood.

### Application

- Ideal for retail stores, hotels, restaurants, museums and art gallery lighting.

### Warnings and Safety

- CAUTION: THIS LAMP IS PRESSURIZED AND COULD SHATTER so to avoid injury and to avoid exposure to ultraviolet radiation, this lamp should be used in a fixture that provides a protective shield of tempered glass. Provide adequate ventilation to ensure that seal temperature does not exceed 350 degrees C and use only in fixtures rated for the wattage stated on this package. To avoid risks of burns or other injury, turn power off and allow lamp to fully cool before attempting to replace. Socket condition may affect lamp life. Inspect and replace socket if deterioration has occurred.

# PHILIPS

Related products



GU5.3, MR16, 10°



GU5.3, MR16, 10°

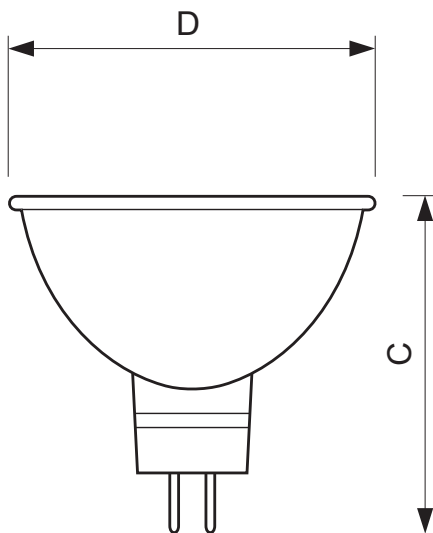


GU5.3, MR16, 24°



GU5.3, MR16, 36°

Dimensional drawing



Long Life ESX 20W GU5.3 12V MR16 10D CL 1CT

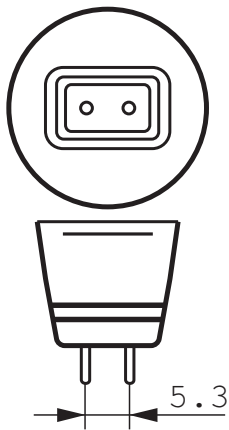
Product	C (Max)	D (Max)
DICHRO Pro 14610 20W GU5.3 12V MR16 10D	46	51
DICHRO Pro 14612 20W GU5.3 12V MR16 36D	46	51
DICHRO Pro 14615 35W GU5.3 12V MR16 24D	46	51
DICHRO Pro 14616 35W GU5.3 12V MR16 36D	46	51
DICHRO Pro 14618 50W GU5.3 12V MR16 10D	46	51
DICHRO Pro 14619 50W GU5.3 12V MR16 24D	46	51
DICHRO Pro 14620 50W GU5.3 12V MR16 36D	46	51
DICHRO Pro 75W GU5.3 12V MR16 10D	51	46
DICHRO Pro 14639 75W GU5.3 12V MR16 36D	51	46

General Characteristics

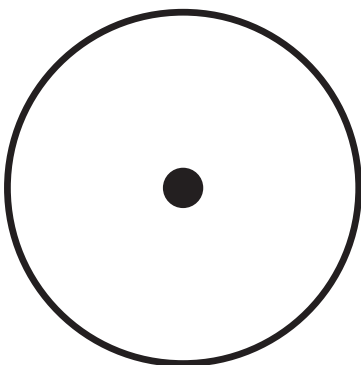
Order code	Full product name	Philips Code	Base	Bulb	Bulb Finish	Operating Position	RatedAvgLife(See Family Notes)	Nominal Lifetime	Rated Life-time (hours)	Rated Life-time (years)
924053317130	Long Life EYF 75W GU5.3 12V MR16 10D CL 1CT	-	GU5.3	MR16	Clear	Universal	4000 hr	2000 hr	2000 hr	2 an
924050017130	Long Life ESX 20W GU5.3 12V MR16 10D CL 1CT	14610	GU5.3	MR16	Clear	Universal	4000 hr	4000 hr	4000 hr	4 an
924050817130	Long Life EXT 50W GU5.3 12V MR16 10D CL 1CT	14618	GU5.3	MR16	Clear	Universal	4000 hr	4000 hr	4000 hr	4 an

Order code	Full product name	Philips Code	Base	Bulb	Bulb Finish	Operating Position	Rated Avg Life (See Family Notes)	Nominal Lifetime	Rated Lifetime (hours)	Rated Lifetime (years)
924050517130	Long Life FRA 35W GU5.3 12V MR16 24D CL 1CT	14615	GU5.3	MR16	Clear	Universal	4000 hr	4000 hr	4000 hr	4 an
924050917130	Long Life EXZ 50W GU5.3 12V MR16 24D CL 1CT	14619	GU5.3	MR16	Clear	Universal	4000 hr	4000 hr	4000 hr	4 an
924050217130	Long Life BAB 20W GU5.3 12V MR16 36D CL 1CT	14612	GU5.3	MR16	Clear	Universal	4000 hr	4000 hr	4000 hr	4 an
924050617130	Long Life FMW 35W GU5.3 12V MR16 36D CL 1CT	14616	GU5.3	MR16	Clear	Universal	4000 hr	4000 hr	4000 hr	4 an
924051017130	Long Life EXN 50W GU5.3 12V MR16 36D CL 1CT	14620	GU5.3	MR16	Clear	Universal	4000 hr	4000 hr	4000 hr	4 an
924053417130	Long Life EYC 75W GU5.3 12V MR16 36D CL 1CT	14639	GU5.3	MR16	Clear	Universal	4000 hr	2000 hr	2000 hr	2 an

Installation diagrams



GU5.3

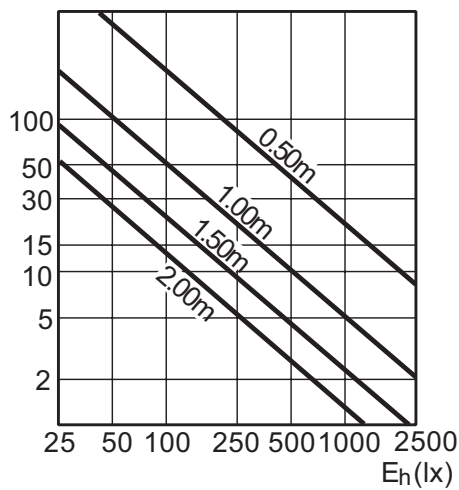


any

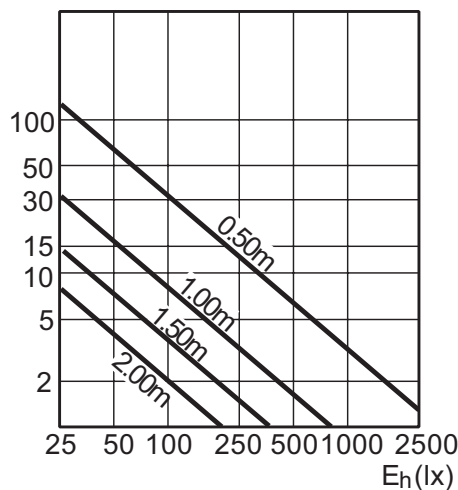
Light Technical Characteristics

Order code	Full product name	Beam Angle	Approx. MBCP	Color Rendering Index	Color Temperature	Rated Luminous Flux	LLMF - end nominal life-time	Rated Beam Angle
924053317130	Long Life EYF 75W GU5.3 12V MR16 10D CL 1CT	10 D	14000 (max) cd	100 Ra8	3000 K	-	-	-
924050017130	Long Life ESX 20W GU5.3 12V MR16 10D CL 1CT	10 D	4450 (max) cd	100 Ra8	3000 K	236 Lm	80 (min) %	10 D
924050817130	Long Life EXT 50W GU5.3 12V MR16 10D CL 1CT	10 D	10680 (max) cd	100 Ra8	3000 K	775 Lm	80 (min) %	10 D
924050517130	Long Life FRA 35W GU5.3 12V MR16 24D CL 1CT	24 D	2640 (max) cd	100 Ra8	3000 K	500 Lm	80 (min) %	24 D
924050917130	Long Life EXZ 50W GU5.3 12V MR16 24D CL 1CT	24 D	3700 (max) cd	100 Ra8	3000 K	775 Lm	80 (min) %	24 D
924050217130	Long Life BAB 20W GU5.3 12V MR16 36D CL 1CT	36 D	665 (max) cd	100 Ra8	3000 K	236 Lm	80 (min) %	36 D
924050617130	Long Life FMW 35W GU5.3 12V MR16 36D CL 1CT	36 D	1400 (max) cd	100 Ra8	3000 K	500 Lm	80 (min) %	36 D
924051017130	Long Life EXN 50W GU5.3 12V MR16 36D CL 1CT	36 D	2050 (max) cd	100 Ra8	3000 K	775 Lm	80 (min) %	36 D
924053417130	Long Life EYC 75W GU5.3 12V MR16 36D CL 1CT	36 D	2500 (max) cd	100 Ra8	3000 K	-	-	-

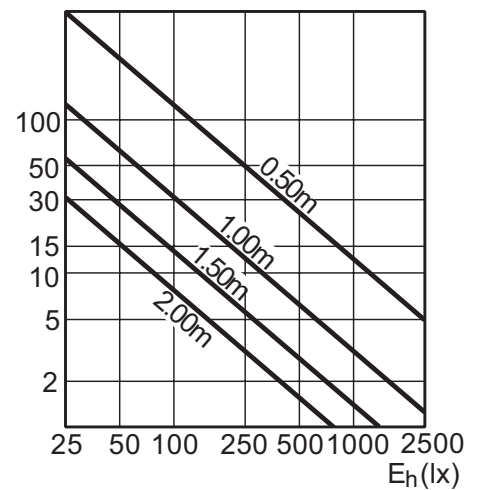
Light technical



Halogen Dichroic 20W 10D

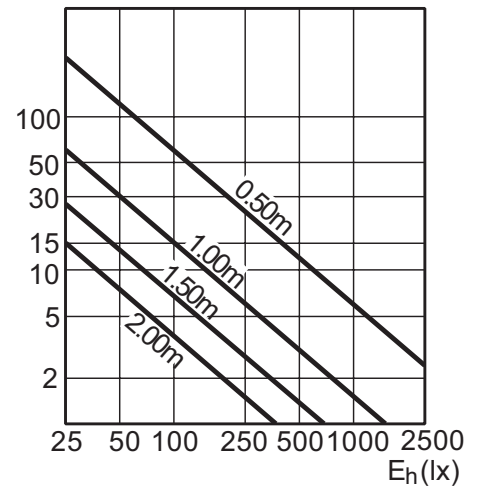


Halogen Dichroic 20W 36D

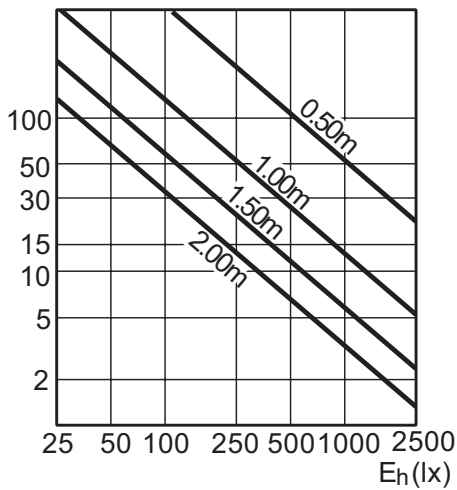


Halogen Dichroic 35W 24D

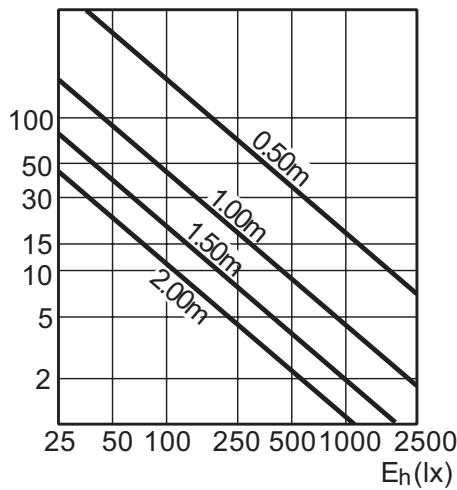
Light technical



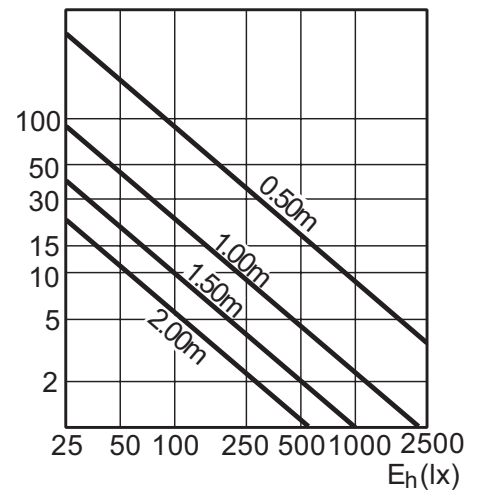
Halogen Dichroic 35W 36D



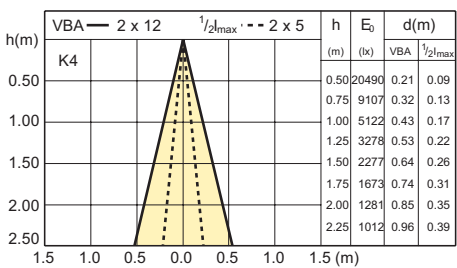
Halogen Dichroic 50W 10D



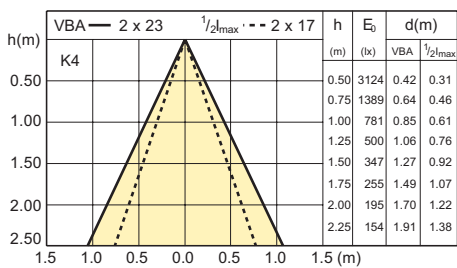
Halogen Dichroic 50W 24D



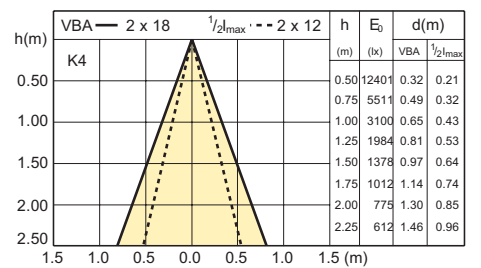
Halogen Dichroic 50W 36D



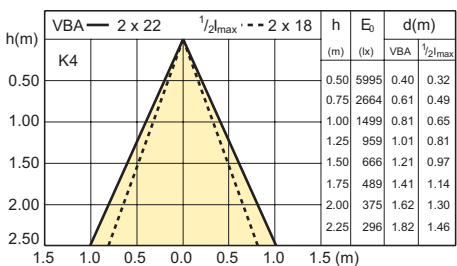
Halogen Dichroic 20W 10D



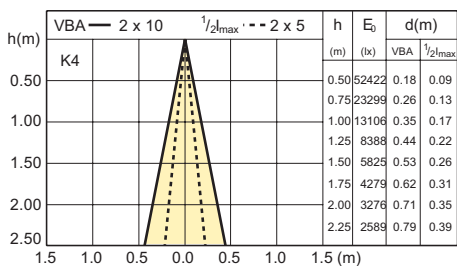
Halogen Dichroic 20W 36D



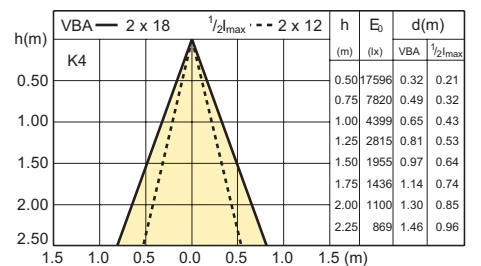
Halogen Dichroic 35W 24D



Halogen Dichroic 35W 36D

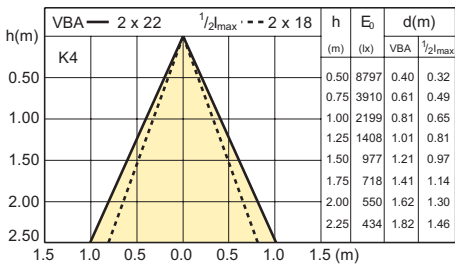


Halogen Dichroic 50W 10D

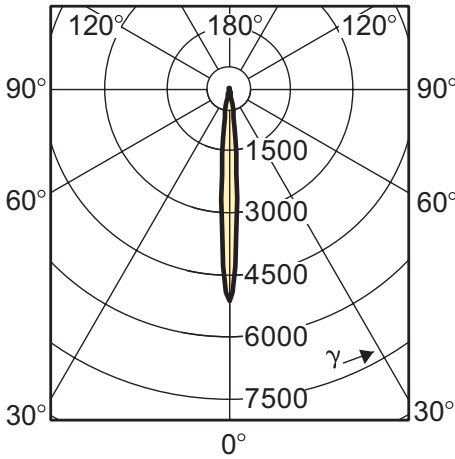


Halogen Dichroic 50W 24D

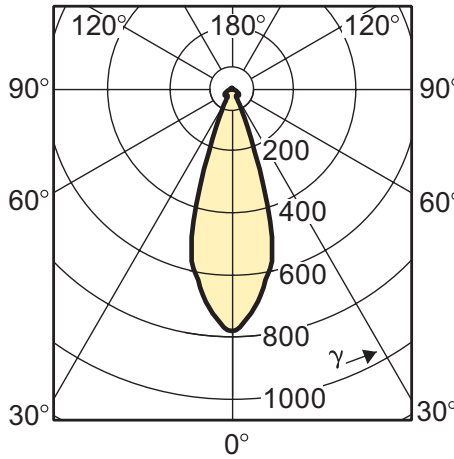
Light technical



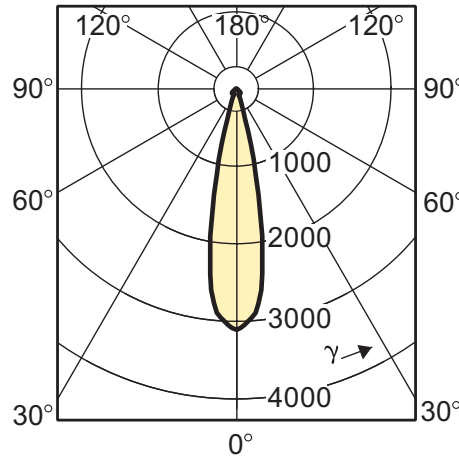
Halogen Dichroic 50W 36D



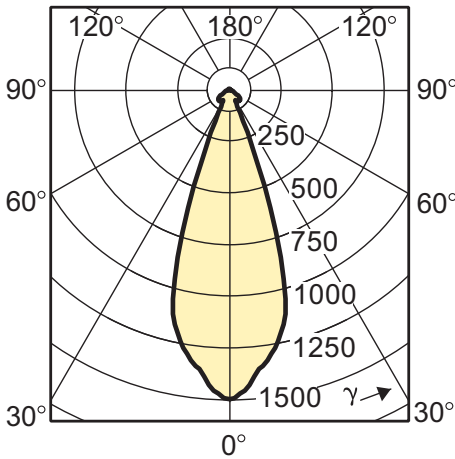
Halogen Dichroic 20W 10D



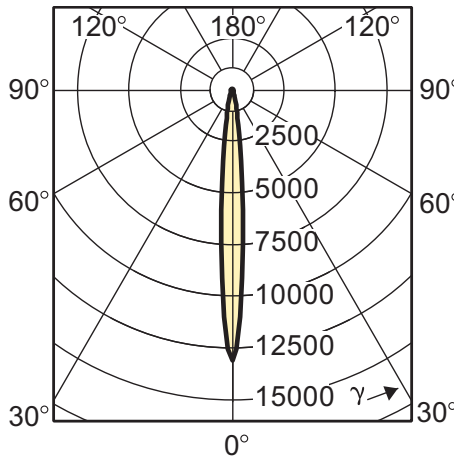
Halogen Dichroic 20W 36D



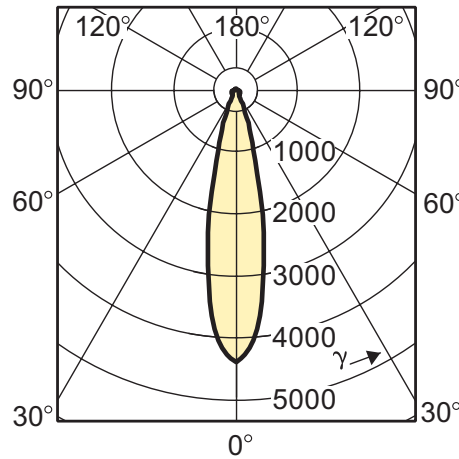
Halogen Dichroic 35W 24D



Halogen Dichroic 35W 36D

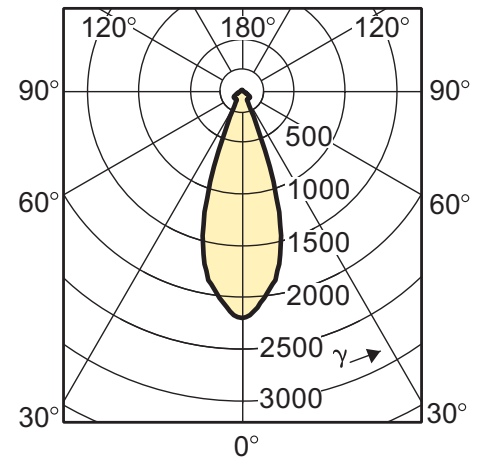


Halogen Dichroic 50W 10D



Halogen Dichroic 50W 24D

Light technical



Halogen Dichroic 50W 36D

Electrical Characteristics

Order code	Full product name	Rated Wattage	Energy Used	Voltage	Lamp Current	Dimmable	Starting Time	Warm-up Time to 60% Light Outp
924053317130	Long Life EYF 75W GU5.3 12V MR16 10D CL 1CT	-	75 W	12 V	6.3 A	Yes	0.0 s	-
924050017130	Long Life ESX 20W GU5.3 12V MR16 10D CL 1CT	20.0 W	20 W	12 V	1.7 A	Yes	0.0 s	instant full light
924050817130	Long Life EXT 50W GU5.3 12V MR16 10D CL 1CT	50.0 W	50 W	12 V	4.2 A	Yes	0.0 s	instant full light
924050517130	Long Life FRA 35W GU5.3 12V MR16 24D CL 1CT	35.0 W	35 W	12 V	2.92 A	Yes	0.0 s	instant full light
924050917130	Long Life EXZ 50W GU5.3 12V MR16 24D CL 1CT	50.0 W	50 W	12 V	4.2 A	Yes	0.0 s	instant full light
924050217130	Long Life BAB 20W GU5.3 12V MR16 36D CL 1CT	20.0 W	20 W	12 V	1.7 A	Yes	0.0 s	instant full light
924050617130	Long Life FMW 35W GU5.3 12V MR16 36D CL 1CT	35.0 W	35 W	12 V	2.92 A	Yes	0.0 s	instant full light
924051017130	Long Life EXN 50W GU5.3 12V MR16 36D CL 1CT	50.0 W	50 W	12 V	4.2 A	Yes	0.0 s	instant full light
924053417130	Long Life EYC 75W GU5.3 12V MR16 36D CL 1CT	-	75 W	12 V	6.3 A	Yes	0.0 s	-

Environmental Characteristics

Order code	Full product name	Energy Efficiency Label (EEL)	Energy consumption kWh/1000h
924053317130	Long Life EYF 75W GU5.3 12V MR16 10D CL 1CT	-	-
924050017130	Long Life ESX 20W GU5.3 12V MR16 10D CL 1CT	B	21 kWh
924050817130	Long Life EXT 50W GU5.3 12V MR16 10D CL 1CT	B	53 kWh
924050517130	Long Life FRA 35W GU5.3 12V MR16 24D CL 1CT	B	37 kWh
924050917130	Long Life EXZ 50W GU5.3 12V MR16 24D CL 1CT	B	53 kWh

Order code	Full product name	Energy Efficiency Label (EEL)	Energy consumption kWh/1000h
924050217130	Long Life BAB 20W GU5.3 12V MR16 36D CL 1CT	B	21 kWh
924050617130	Long Life FMW 35W GU5.3 12V MR16 36D CL 1CT	B	37 kWh
924051017130	Long Life EXN 50W GU5.3 12V MR16 36D CL 1CT	B	53 kWh
924053417130	Long Life EYC 75W GU5.3 12V MR16 36D CL 1CT	-	-

## Measuring Conditions

Order code	Full product name	Switching cycle
924050017130	Long Life ESX 20W GU5.3 12V MR16 10D CL 1CT	16000X
924050817130	Long Life EXT 50W GU5.3 12V MR16 10D CL 1CT	16000X
924050517130	Long Life FRA 35W GU5.3 12V MR16 24D CL 1CT	16000X
924050917130	Long Life EXZ 50W GU5.3 12V MR16 24D CL 1CT	16000X
924050217130	Long Life BAB 20W GU5.3 12V MR16 36D CL 1CT	16000X
924050617130	Long Life FMW 35W GU5.3 12V MR16 36D CL 1CT	16000X
924051017130	Long Life EXN 50W GU5.3 12V MR16 36D CL 1CT	16000X

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
924050517130	Long Life FRA 35W GU5.3 12V MR16 24D CL 1CT	350 (max) C	250 (max) C
924050917130	Long Life EXZ 50W GU5.3 12V MR16 24D CL 1CT	350 (max) C	250 (max) C
924050217130	Long Life BAB 20W GU5.3 12V MR16 36D CL 1CT	350 (max) C	250 (max) C
924050617130	Long Life FMW 35W GU5.3 12V MR16 36D CL 1CT	350 (max) C	250 (max) C
924051017130	Long Life EXN 50W GU5.3 12V MR16 36D CL 1CT	350 (max) C	250 (max) C
924053417130	Long Life EYC 75W GU5.3 12V MR16 36D CL 1CT	350 (max) C	300 (max) C

## Luminaire Design Requirements

Order code	Full product name	Cap-Base Temperature	Bulb Temperature
924053317130	Long Life EYF 75W GU5.3 12V MR16 10D CL 1CT	350 (max) C	300 (max) C
924050017130	Long Life ESX 20W GU5.3 12V MR16 10D CL 1CT	350 (max) C	250 (max) C
924050817130	Long Life EXT 50W GU5.3 12V MR16 10D CL 1CT	350 (max) C	250 (max) C



© 2014 Koninklijke Philips N.V. (Royal Philips)  
All rights reserved.

Specifications are subject to change without notice. Trademarks are the property of Koninklijke Philips N.V. (Royal Philips) or their respective owners.

[www.philips.com/lighting](http://www.philips.com/lighting)

2014, March 4  
data subject to change