



Accent with higher performance LED retrofits

MR16/GU10/PAR16 LED

Philips MR16 Dimmable LED Lamps provide ambient level light to illuminate hard to maintain applications. Increased transformer compatibility allows for operation on a wider range of transformers. Available in dimmable and non-dimmable versions, these lamps are ideal for track and open recessed fixtures in retail, hospitality and residential spaces.

Benefits

- Long life properties-- lowers maintenance costs by reducing re-lamp frequency
- Will not fade colors, avoids inventory spoilage
- Contains no mercury
- Emits virtually no UV/IR light in the beam
- 3-year or 5-year limited warranty depending upon operating hours

Features

- Available in dimmable* and non-dimmable versions
- Provides quality white light and a crisp, uniform beam
- 7W and 7W HO MRX16s are suitable for use in many enclosed fixtures
- 40,000-hour rated average life⁺ for 7W MRX16
- Instant-on light
- ^{*}Dimmable when using leading edge dimmers (see Philips Website: www.philips.com/ledtechguide for compatible leading edge dimmers.)
- ⁺Rated average life based on engineering testing and probability analysis.

Application

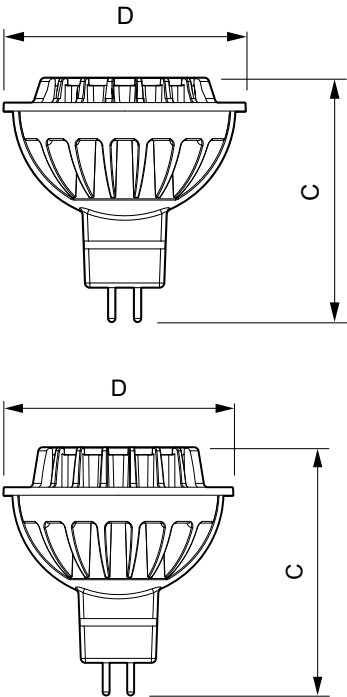
- Ideal for accent and ambient lighting in retail and hospitality spaces.

MR16/GU10/PAR16 LED

Versions



Dimensional drawing

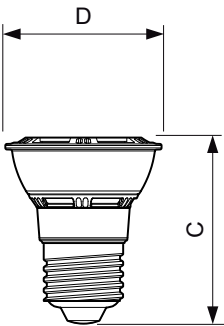
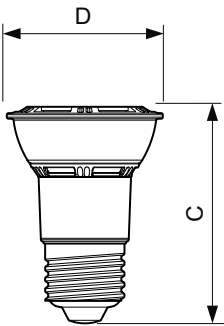
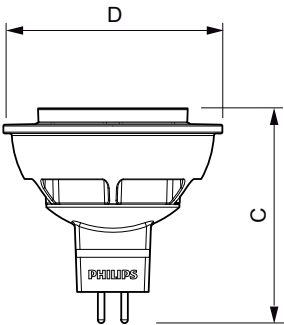


Product	D	C
7MR16/LED/S15/827/DIM AF2 10/1	50.5 mm	50.5 mm
7MR16/LED/S15/840/DIM AF2 10/1	50.5 mm	50.5 mm
7MR16/LED/S15/830/DIM AF2 10/1	50.5 mm	50.5 mm
7MR16/LED/F35/830/DIM AF2 10/1	50.5 mm	50.5 mm
7MR16/LED/F35/827/DIM AF2 10/1	50.5 mm	50.5 mm
7MR16/LED/F25/830/DIM AF2 10/1	50.5 mm	50.5 mm
7MR16/LED/F25/840/DIM AF2 10/1	50.5 mm	50.5 mm
7MR16/LED/F25/827/DIM AF2 10/1	50.5 mm	50.5 mm
7MR16/LED/F35/840/DIM AF2 10/1	50.5 mm	50.5 mm

Product	D	C
8.5MRX16/F35 4000 DIM AF 10/1	51 mm	55 mm
8.5MRX16/F25 4000 DIM AF 10/1	51 mm	55 mm
8.5MRX16/F35 3000 DIM AF 10/1	51 mm	55 mm
8.5MRX16/F25 2700 DIM AF 10/1	51 mm	55 mm
8.5MRX16/F25 3000 DIM AF 10/1	51 mm	55 mm
8.5MRX16/F35 2700 DIM AF 10/1	51 mm	55 mm

MR16/GU10/PAR16 LED

Dimensional drawing



Product	D	C
6.5MR16/F25/2700-2200 DIM 12V	51 mm	50 mm
6.6MR16/F25/3000 DIM 12V	51 mm	51 mm
6.6MR16/F35/3000 DIM 12V	51 mm	51 mm
6.5MR16/F35/2700-2200 DIM 12V	51 mm	50 mm

Product	D	C
AmbientLED PAR16 7W 35D 830 D	50 mm	70 mm

Product	D	C
AmbientLED PAR16S 7W 35D 830 D	50 mm	60 mm

Approval and Application	
Energy Efficiency Label (EEL)	Not applicable
Controls and Dimming	
Dimmable	Yes
Operating and Electrical	
Starting Time (Nom)	0.5 s
General Information	
Switching Cycle	50000X
Light Technical	
Llmf At End Of Nominal Lifetime (Nom)	70 %

Approval and Application

MR16/GU10/PAR16 LED

order code	Energy Consumption kWh/1000 h
454538	- kWh
454546	7 kWh
457507	9 kWh
457515	- kWh
457523	9 kWh
457531	9 kWh
457549	9 kWh
457556	9 kWh
454785	7 kWh
457606	7 kWh
461525	8 kWh

order code	Energy Consumption kWh/1000 h
461533	8 kWh
461541	8 kWh
461558	8 kWh
461566	8 kWh
461574	8 kWh
461582	8 kWh
461590	8 kWh
461608	8 kWh
464981	-
464999	-

Operating and Electrical

order code	Input Frequency	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)
454538	50 to 60 Hz	12 V	35 W	6.5 W
454546	50 to 60 Hz	12 V	35 W	6.5 W
457507	60 Hz	12 V	50 W	8.5 W
457515	60 Hz	12 V	50 W	8.5 W
457523	60 Hz	12 V	50 W	8.5 W
457531	60 Hz	12 V	50 W	8.5 W
457549	60 Hz	12 V	50 W	8.5 W
457556	60 Hz	12 V	50 W	8.5 W
454785	60 Hz	12 V	35 W	6.6 W
457606	60 Hz	12 V	35 W	6.6 W
461525	-	12 V	35 W	7 W

order code	Input Frequency	Voltage (Nom)	Wattage Equivalent	Power (Rated) (Nom)
461533	-	12 V	35 W	7 W
461541	-	12 V	35 W	7 W
461558	-	12 V	50 W	7 W
461566	-	12 V	50 W	7 W
461574	-	12 V	50 W	7 W
461582	-	12 V	50 W	7 W
461590	-	12 V	50 W	7 W
461608	-	12 V	50 W	7 W
464981	60 Hz	120 V	50 W	7 W
464999	60 Hz	120 V	50 W	7 W

General Information

order code	Bulb Shape	Cap-Base	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
454538	MR16	GU5.3	25000 h	25000 h
454546	MR16	GU5.3	25000 h	25000 h
457507	MR16	GU5.3	25000 h	25000 h
457515	MR16	GU5.3	25000 h	25000 h
457523	MR16	GU5.3	25000 h	25000 h
457531	MR16	GU5.3	25000 h	25000 h
457549	MR16	GU5.3	25000 h	25000 h
457556	MR16	GU5.3	25000 h	25000 h
454785	MR16	GU5.3	25000 h	25000 h
457606	MR16	GU5.3	25000 h	25000 h
461525	MR16	GU5.3	40000 h	40000 h

order code	Bulb Shape	Cap-Base	Nominal Lifetime (Nom)	Rated Lifetime (Hours)
461533	MR16	GU5.3	40000 h	40000 h
461541	MR16	GU5.3	40000 h	40000 h
461558	MR16	GU5.3	25000 h	25000 h
461566	MR16	GU5.3	25000 h	25000 h
461574	MR16	GU5.3	25000 h	25000 h
461582	MR16	GU5.3	25000 h	25000 h
461590	MR16	GU5.3	25000 h	25000 h
461608	MR16	GU5.3	25000 h	25000 h
464981	PAR16	E26	25000 h	25000 h
464999	PAR16	E26	25000 h	25000 h

Light Technical (1/2)

order code	Beam Angle (Nom)	Correlated Color Temperature		Color Rendering Index (Nom)	Luminous Flux (Rated)			
		Color Code	(Nom)		Light Distribution	Luminous Flux (Nom)	(Nom)	Luminous Intensity (Nom)
454538	25 °	822-827	2200-2700 K	80	25D	410 lm	410 lm	1800 cd
454546	35 °	822-827	2200-2700 K	80	Medium beam 35°	410 lm	410 lm	900 cd
457507	25 °	827	2700 K	80	25D	635 lm	635 lm	3100 cd
457515	25 °	830	3000 K	80	25D	660 lm	660 lm	3250 cd
457523	25 °	841	4000 K	80	25D	710 lm	710 lm	3350 cd

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order code	Beam Angle (Nom)	Correlated Color Temperature		Color Rendering Index (Nom)	Light Distribution	Luminous Flux (Rated)		
		Color Code	(Nom)			Luminous Flux (Nom)	(Nom)	Luminous Intensity (Nom)
457531	35 °	827	2700 K	80	Medium beam 35°	635 lm	635 lm	1650 cd
457549	35 °	830	3000 K	80	Medium beam 35°	660 lm	660 lm	1700 cd
457556	35 °	841	4000 K	80	Medium beam 35°	710 lm	710 lm	1750 cd
454785	25 °	830	3000 K	80	25D	395 lm	395 lm	1800 cd
457606	35 °	830	3000 K	80	Medium beam 35°	395 lm	395 lm	1000 cd
461525	15 °	827	2700 K	80	15D	-	-	2800 cd
461533	15 °	930	3000 K	90	15D	-	-	2950 cd
461541	15 °	940	4000 K	90	15D	-	-	3050 cd
461558	25 °	827	2700 K	80	25D	500 lm	500 lm	2400 cd
461566	25 °	930	3000 K	90	25D	500 lm	500 lm	2500 cd
461574	25 °	940	4000 K	90	25D	530 lm	530 lm	2600 cd
461582	35 °	827	2700 K	80	36D	500 lm	500 lm	1320 cd
461590	35 °	930	3000 K	90	Medium beam 35°	500 lm	500 lm	1350 cd
461608	35 °	940	4000 K	90	Medium beam 35°	530 lm	530 lm	1400 cd
464981	35 °	830	3000 K	80	-	500 lm	500 lm	1000 cd
464999	35 °	830	3000 K	80	-	500 lm	500 lm	1000 cd

Light Technical (2/2)

order code	Rated Beam Angle
454538	25 °
454546	35 °
457507	25 °
457515	25 °
457523	25 °
457531	35 °
457549	35 °
457556	35 °
454785	25 °
457606	35 °
461525	15 °

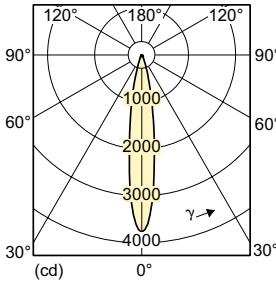
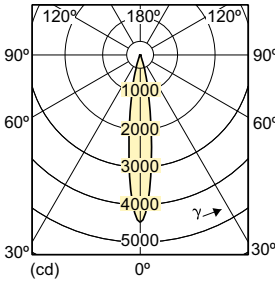
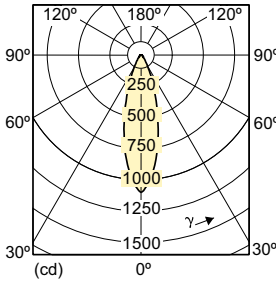
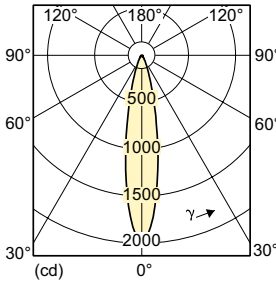
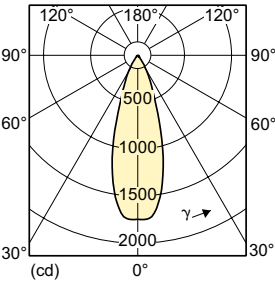
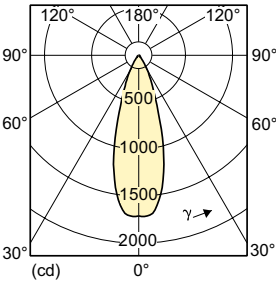
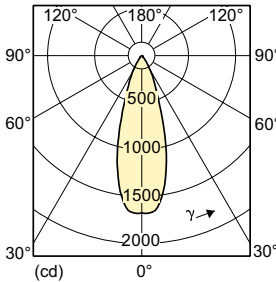
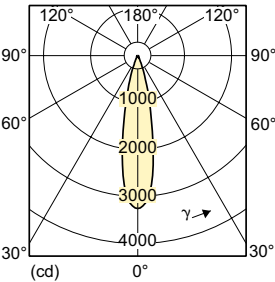
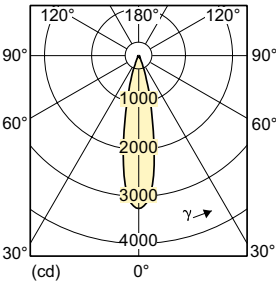
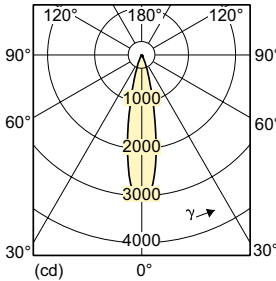
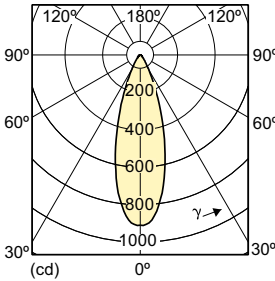
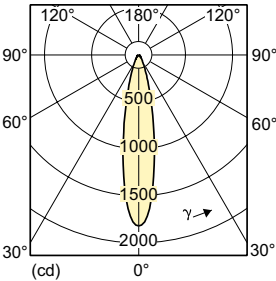
order code	Rated Beam Angle
461533	15 °
461541	15 °
461558	25 °
461566	25 °
461574	25 °
461582	35 °
461590	35 °
461608	35 °
464981	35 °
464999	35 °

Temperature

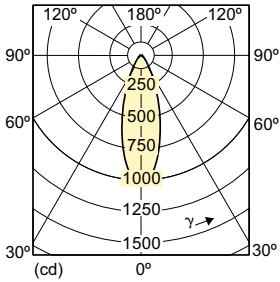
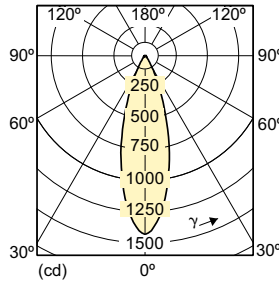
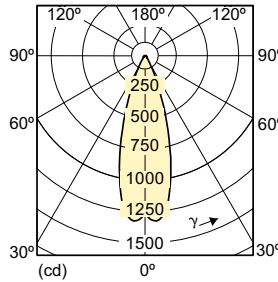
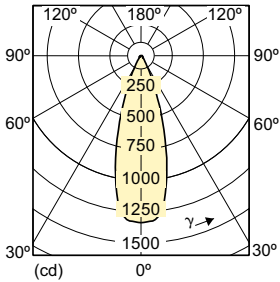
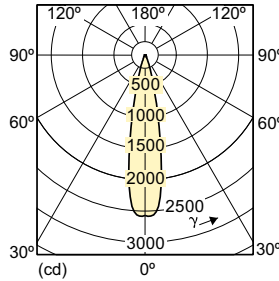
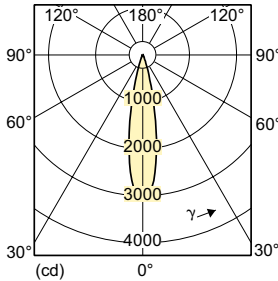
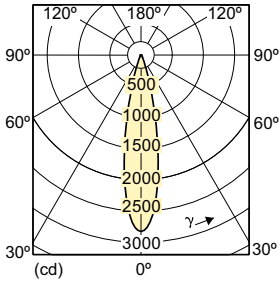
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454546	-
457507	105 °C
457515	105 °C
457523	105 °C
457531	105 °C
457549	105 °C
457556	105 °C
454785	100 °C
457606	100 °C
461525	92 °C

order code	T-Case Maximum (Nom)
461533	92 °C
461541	92 °C
461558	92 °C
461566	92 °C
461574	92 °C
461582	92 °C
461590	92 °C
461608	92 °C
464981	85 °C
464999	85 °C

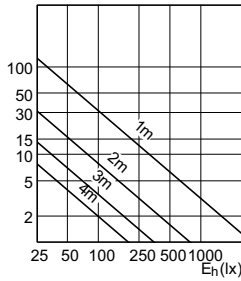
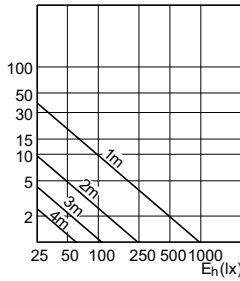
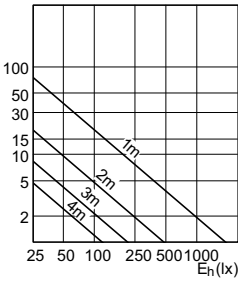
Light Distribution Diagrams



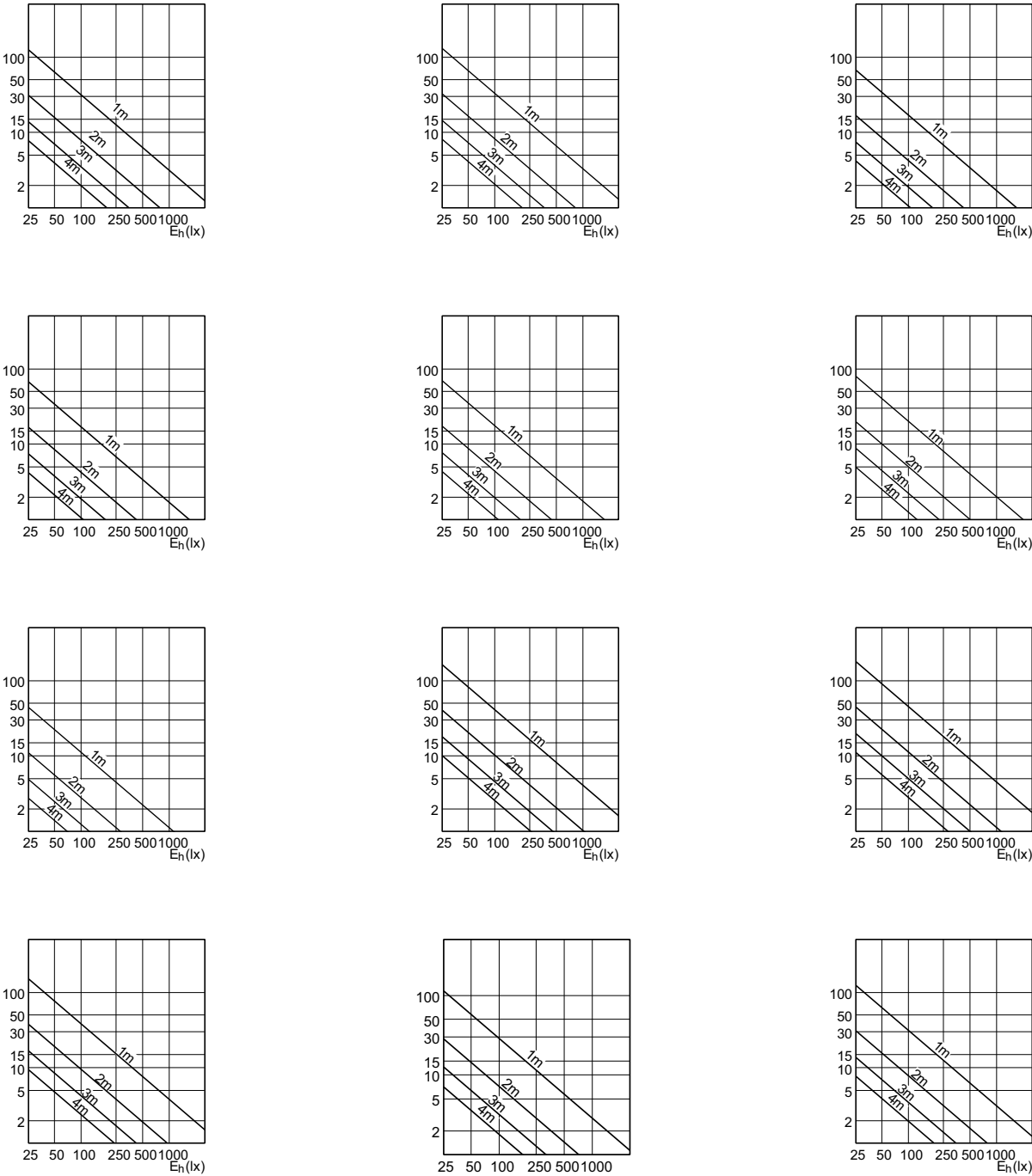
Light Distribution Diagrams



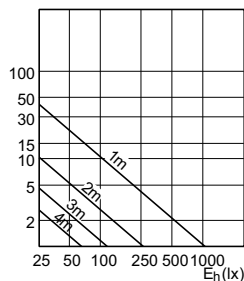
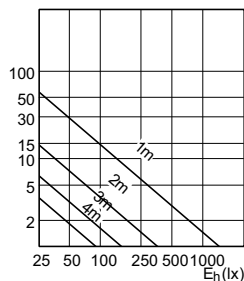
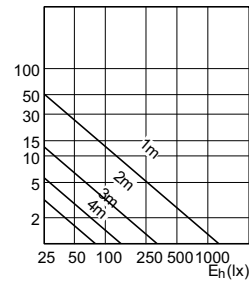
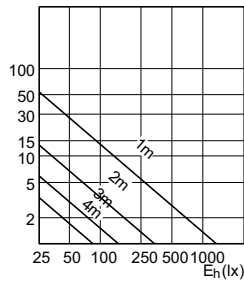
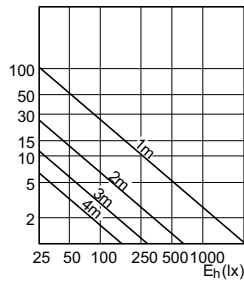
Accent Diagrams



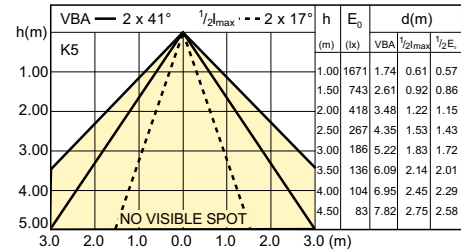
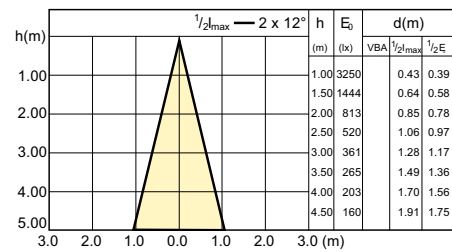
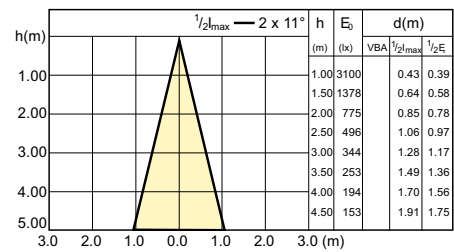
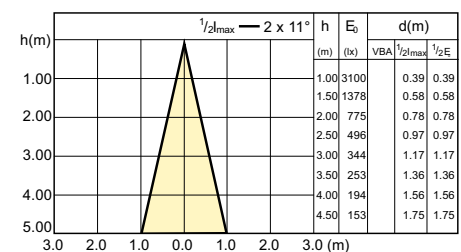
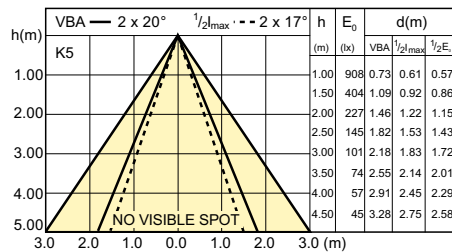
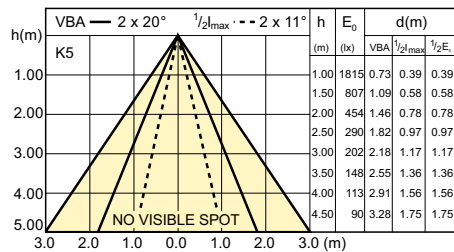
Accent Diagrams



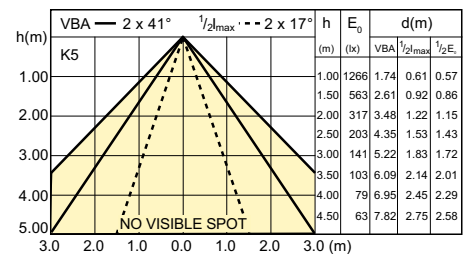
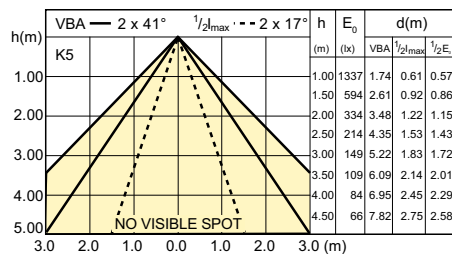
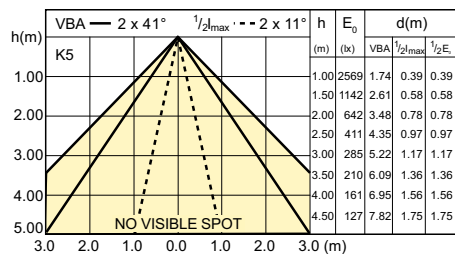
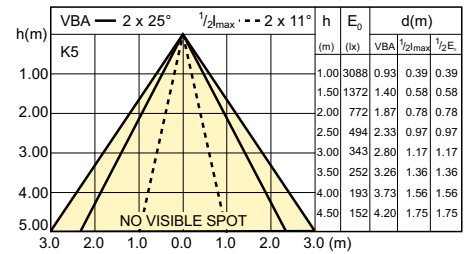
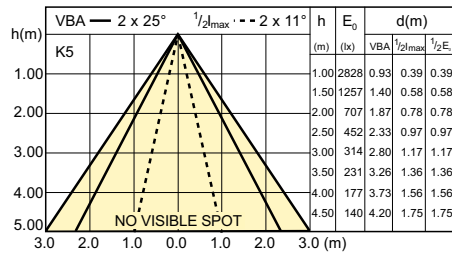
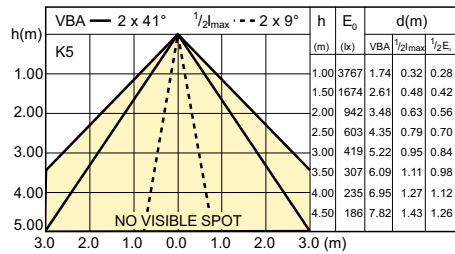
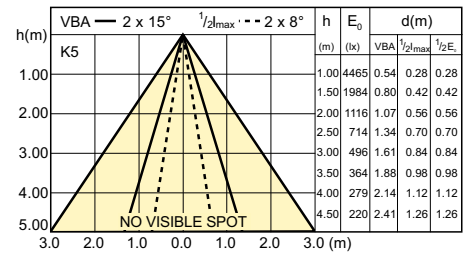
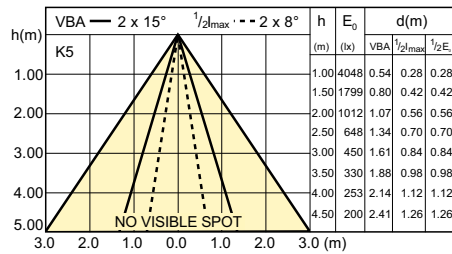
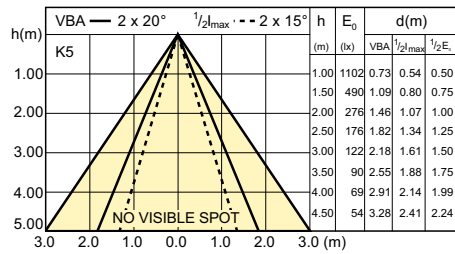
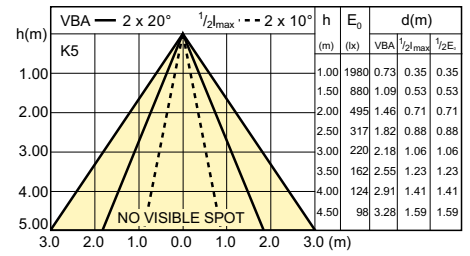
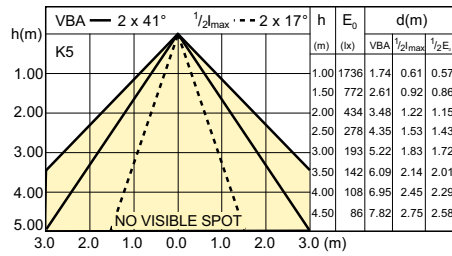
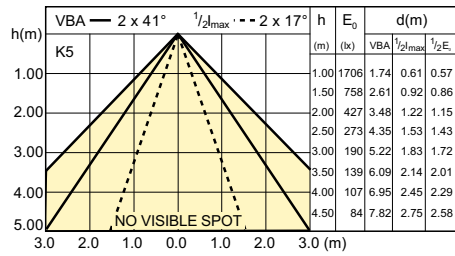
Accent Diagrams



Beam Diagrams



Beam Diagrams



Beam Diagrams

