

MINI AND MICRO TORCH

M-10, M-40, M-60 & M-70 ZONES 0 1 2 20 21 22



WITHOUT COMPROMISE

PRODUCT INFORMATION

Wolf Mini and Micro torches are tough, reliable and compact enough to easily store in your pocket. Using the latest LED light source technology, light output is highly impressive, with the new M-70 mini torch achieving up to 107 lumens (at source) from its 2 X AAA batteries.

ATEX and IECEx certified for safe use in potentially explosive gas, vapour, mist or dust atmospheres where a T4 or T5 temperature class permits, all models are approved to Group I for use in mining applications.

Ultra small size



Lightweight, ergonomic designs

LIGHT OUTPUT/DURATION/POWER

- Long life LED light sources boasting:
 - 107lm (M-70)
 - 139lm (M-60)
 - 3 x 30cd (M-40)
 - 30cd (M-10)
- Battery Duration:
 - 7 hrs (M-70),
 - 3 hrs (M-60),
 - 10 hrs (M-40)
 - 2 hrs (M-10)

CERTIFICATION

- ATEX & IECEx Directive explosive gas, vapour, mist and dust certified for zones 0, 1, 2, 20, 21 and 22
- T4 temperature class (M-40, M-60 & M-70)
- T5 temperature class (M-10)
- IP67 ingress protection
- Gas and Dust Approval (*IIIC dust approval on M-70)
- Group I Mining Approval

FEATURES

- AAA batteries (M-70)
- Ultra small size – easy to store in pockets
- Lightweight, ergonomic design
- Proven impact resistance
- Single handed switching
- Switch protection shroud
- Integral pen style pocket clip
- Supplied with batteries



Single handed switching

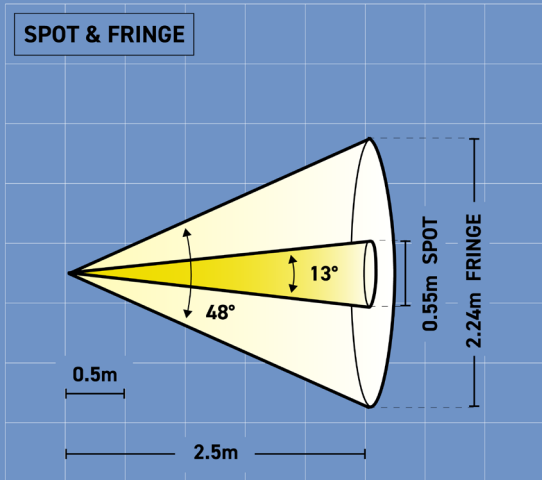
Integral pen style pocket clip

Switch protection shroud

LIGHT OUTPUT DIAGRAM

MICRO AND MINI TORCH M-10

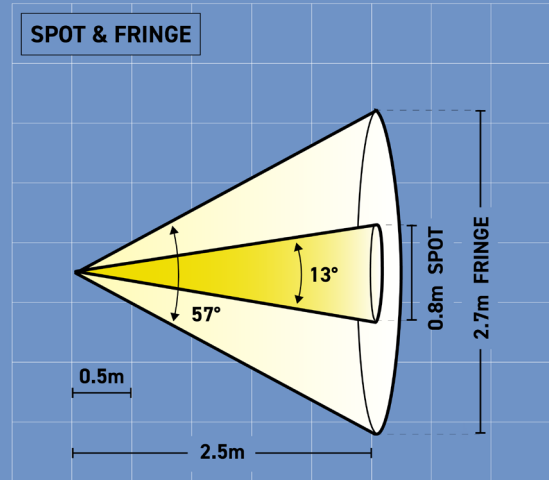
SPOT & FRINGE



Spot Beam (approx 13°)
Peak luminous intensity at 2.5m **8 lux**

MICRO AND MINI TORCH M-40

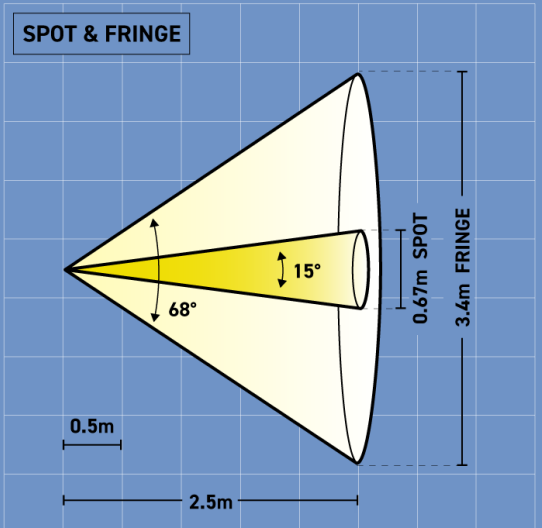
SPOT & FRINGE



Spot Beam (approx 13°)
Peak luminous intensity at 2.5m **60 lux**

MICRO AND MINI TORCH M-60

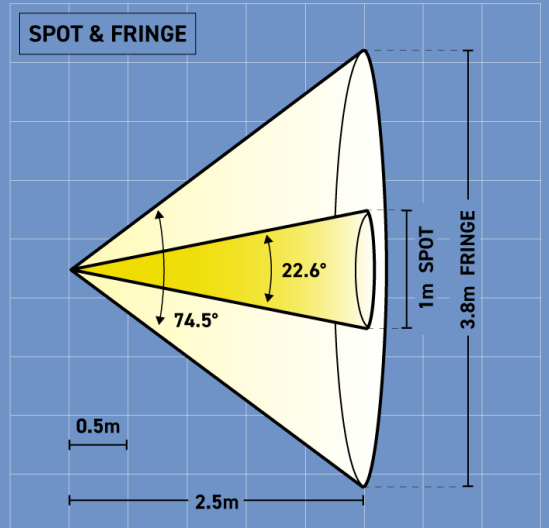
SPOT & FRINGE



Spot Beam (approx 15°)
Peak luminous intensity at 2.5m **164 lux**

MICRO AND MINI TORCH M-70

SPOT & FRINGE



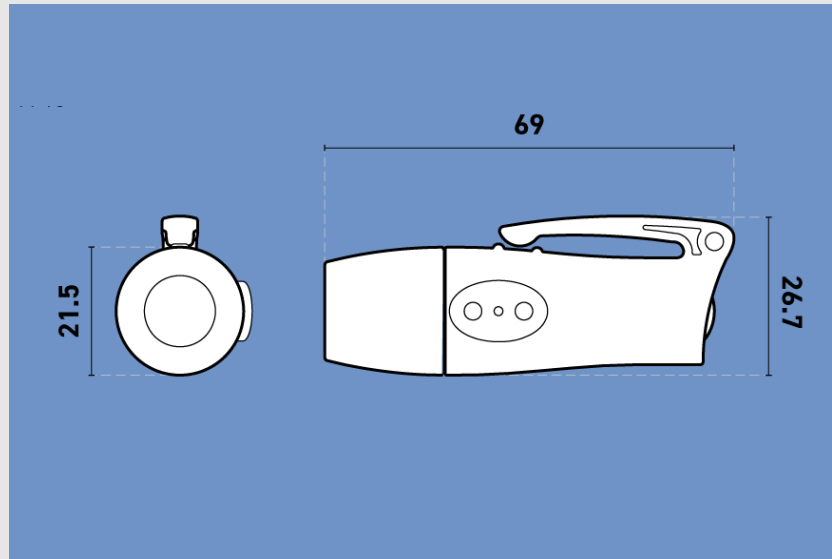
Spot Beam (approx 22.6°)
Peak luminous intensity at 2.5m **80 lux**



TECHNICAL INFORMATION

PRODUCT DIMENSIONS

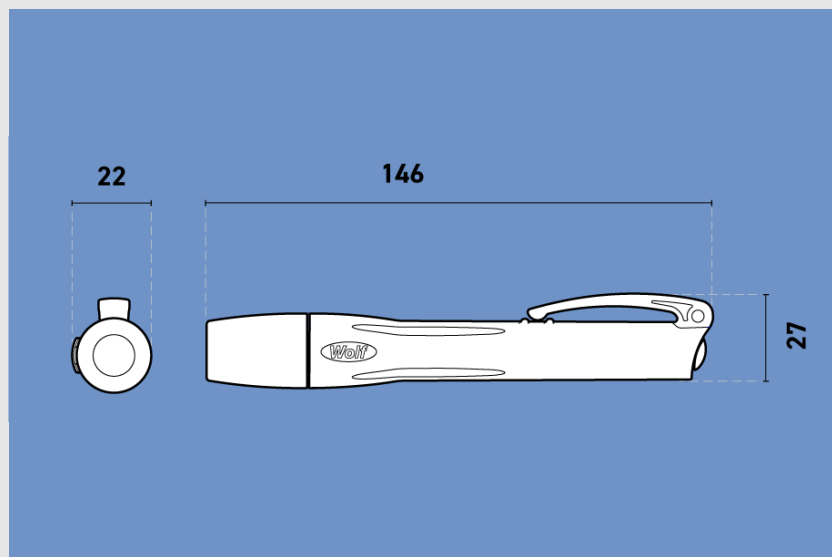
M-10 MICRO TORCH



MEASUREMENT MM

PRODUCT DIMENSIONS

M-40, M-60, M-60MOD & M-70 MINI TORCHES



MEASUREMENT MM



MINI AND MICRO TORCHES

PRODUCT REFERENCE		M-10	M-40	M-60	M-70
PRODUCT DESCRIPTION		LED Micro Torch	LED Mini Torch		
CODE	ATEX	I M1/II 1GD	I M1/II 1GD	I M1/II 1GD	I M1/II 1GD
	GAS	Ex ia op is IIC T5 Ga	Ex ia op is IIC T4 Ga	Ex ia op is IIC T4 Ga	Ex ia IIC T4 Ga
	DUST	Ex ia op is IIIB T95°C Da	Ex ia op is IIIB T125°C Da	Ex ia op is IIIB T130°C Da	Ex ia IIIC T200 160°C Da
	MINING	Ex ia op is I Ma	Ex ia op is I Ma	Ex ia op is I Ma	Ex ia I Ma
TYPE OF PROTECTION		ia			
AREA OF CLASSIFICATION (GAS)		Zones 0, 1 & 2, Gas group IIC			
TEMPERATURE CLASS (GAS)		T5	T4		
AMBIENT TEMP.		-40°C to +50°C			-20°C to +40°C
AREA OF CLASSIFICATION (DUST)		20, 21 & 22, Dust group IIIB			20, 21 & 22, Dust group IIIC
MAX. SURFACE TEMP. (DUST)		95°C	125°C	130°C	160°C
CERTIFICATE	ATEX	Baseefa06ATEX0084X			
	IECEX	IECEX BAS 06.0023X			
ENCLOSURE / LENS		Impact Resistant Thermoplastic with a Polycarbonate Lens			
BEAM TYPE		Medium Spot			
LIGHT SOURCE	TYPE	1 x 5mm LED White (Nichia)	3 x 5mm LED White (Nichia)	1 x High Power Cree LED	
	OUTPUT (AT SOURCE)	30 cd	3 x 30 cd	up to 139 lm	up to 107 lm
	LIFE	25,000 hrs			
POWER SOURCE	PART NO.	M-102 (4 pack)	M-402 (3 pack)		M-202 (2 pack)
	TYPE	LR44 Primary Cells to IEC60086	LR1 Primary Cells to IEC60086		LR03 Primary Cells to IEC60086
	VOLTS	4 x 1.5V	3 x 1.5V		2 x 1.5V
LIGHT DURATION		Up to 2 hrs	Up to 10 hrs	3 hrs	Up to 7 hrs
INGRESS PROTECTION		IP67			
WEIGHT (INC. CELLS)		25g	60g		

All information has been gathered under laboratory conditions, the user must regard the values given as approximate. Changes may be made to the above specification without notification, details are available on request.



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