

# BOYLE Xtrem

Borosilicate glass tube ø100 and ø133 for extreme or highly corrosive ATEX zone 2, 21 and 22 atmospheres



Sammode



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Designed for the most extreme environments, the BOYLE is the safest luminaire on the market for ATEX zones 2, 21 and 22. It offers the ultimate in robustness and impermeability, thanks to a one-piece housing protecting the electronics, impervious to high temperatures and high-risk electrical systems. Chemical resistance is guaranteed thanks to the use of uncompromising diffuser materials: IK07 borosilicate glass or IK10 co-extruded composite. The entire fitting is removable and repairable, because this too is what makes for a truly durable luminaire.



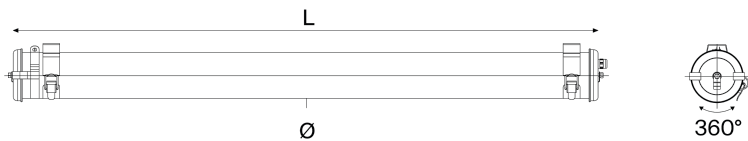


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## 2 cable glands version

CRI80, 4000K

Ø (mm)	Flux (lm)	L (mm)	Designation	Code	Watt
100	1850	697	BOY100 12H840 PY 213 BRS	19835100	15
	2775	1007	BOY100 13H840 PY 213 BRS	19835200	23
	3700	1307	BOY100 14H840 PY 213 BRS	19835384	30
	4625	1607	BOY100 15H840 PY 213 BRS	19835300	37
133	5550	987	BOY133 23H840 PY 213 BRS	19845100	42
	7400	1287	BOY133 24H840 PY 213 BRS	19845292	56
	9250	1587	BOY133 25H840 PY 213 BRS	19845200	68

One-piece housing, impervious to vibrations, 100% removable (Screw system). Marking II 3G Ex ec IIC T4 Gc - II 2D Ex tb IIIC T70°C Db IP66/IP68.

## 1 cable gland version

CRI80, 4000K

Ø (mm)	Flux (lm)	L (mm)	Designation	Code	Watt
100	1850	697	BOY100 12H840 PY 113 BRS	19830020	15
	2775	1007	BOY100 13H840 PY 113 BRS	19830060	23
	3700	1307	BOY100 14H840 PY 113 BRS	19835385	30
	4625	1607	BOY100 15H840 PY 113 BRS	19830080	37
133	5550	987	BOY133 23H840 PY 113 BRS	19840020	42
	7400	1287	BOY133 24H840 PY 113 BRS	19845293	56
	9250	1587	BOY133 25H840 PY 113 BRS	19840040	68

One-piece housing, impervious to vibrations, 100% removable (Screw system). Marking II 3G Ex ec IIC T4 Gc - II 2D Ex tb IIIC T70°C Db IP66/IP68.

## Atex disconnectable cable

HO7-RNF pre-wired with a Marechal® PNCX plug. Order separately for this service.



Cord length (m)	Designation	Code
0,1	CABL HO7RNF-BK ATEX-PLUG 0.1M 3G1.5	CAB0141
1	CABL HO7RNF-BK ATEX-PLUG 1M 3G1.5	CAB0130
3	CABL HO7RNF-BK ATEX-PLUG 3M 3G1.5	CAB0143

Male IP67/IP69 5A 250V end connectors + free female connector supplied, Ø10-14 mm. Marking II 2 G D Ex eb IIC T6 Gb - Ex tb IIIC T72 °C Db.

## Options

Cable entry	Fixing straps	Color temperature
		3000K 830 4000K 840
<b>1 cable gland</b>		<b>Lighting management</b>
Polyamide capacity Ø8-13 mm 113	Reinforced fixing straps	Electronic gear unit for DALI dimming RD
Polyamide capacity Ø10-15 mm 116	Reinforced fixing straps with HSHC screw	
Nickel-coated brass capacity Ø5-14 mm 113LN		<b>Emergency lighting</b>
<b>2 cable glands including one blind plug</b>	<b>Materials</b>	1h Self contained Emergency Lighting Long life time LiFePO4 battery (for length ≥ 995 mm) Tmax=30°C S1H
Polyamide capacity Ø8-13 mm 213	Borosilicate glass housing (IK07)	
Polyamide capacity Ø10-15 mm 216	Coextruded polycarbonate/ PMMA housing IK10	
Nickel-coated brass capacity Ø5-14 mm 213LN	End caps & fixing straps 304L stainless steel	
	End caps & fixing straps 316L stainless steel	





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## Accessories

To be ordered separately



HO7-RNF pre-wired cable with an IP67/69 Marechal® PNCX Atex disconnectable plug

Several length available (6m max), 3 or 5 conductors : consult us



Folded 304L stainless steel protective cover

Length 800mm  
Length 1100mm  
Length 1400mm  
Length 1700mm  
Drill at the site with the required centre distance

Also available in 316L : consult us



304L stainless steel column mounting fixing strap

Adapter ø1"1/4 (=42mm)  
Adapter ø1"1/2 (=49mm)  
Adapter ø2" (=60mm)  
To order by 2

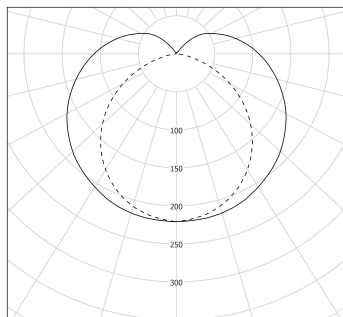
Also available in 316L : consult us

PU4321  
PU4083  
PU4082

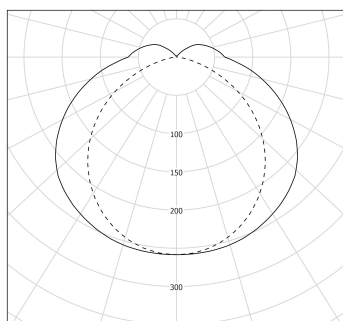
## Specification



### Photometry



Diameter 100



Diameter 133

### Technical characteristics

Light source	High-efficiency removable LED module (CRI>80, 3 SDCM) 70 000 h L80/B10 at max. operating temperature Photobiological hazard : None (RG0)
Optics	Specific satin-finish primary diffuser optics
Heat management	Aluminium heat sink
Control gear	High reliability constant current output driver, mechanically and thermally reinforced. Resistance to overload: 320 V AC, 48 h Supports voltage spikes < 4 kV Compatible with neutral TN, TT and IT arrangements with no limitations Electronic compatible with central source
Supply voltage	198-264V 0/50/60Hz
Electrical class	Class I
Operating temperature	-20°C to +50°C

### Easy installation and maintenance

Connection	With ATEX polyamide cable gland for Ø8 to 13 mm cable 1 cable gland version : to a 3 x 2,5 mm² disconnectable terminal block 2 cable glands version : to 5x2,5mm² detachable double deck terminal block
Mounting	Attachment with 2 bolt-fitted stainless steel straps with variable center distance and 360° orientation
LED engine maintenance	Easily removable LED modules and driver Off-load opening in an explosive environment

### Materials

Housing	Borosilicate-glass
End caps and fixing straps	304L stainless steel
Gaskets	Peroxide-cured EPDM
Method of construction	Housing in one piece with high mechanical and chemical resistance Long-lasting imperviousness by axial screw fitting

### Standards

ATEX / IECEx	IEC 60079-0, IEC 60079-15, IEC 60079-31
Marking	II 3G Ex ec IIC T4 Gc - II 2D Ex tb IIIC T70°C Db IP66/IP68
Waterproofness	IP66, IP68, IP69K
Resistance to IK shocks	IK07
Fire resistance	Non-flammable
Vibration resistance	Meets the severe application requirements of standard EN 60598-1 (tested according to IEC 60068-2-6)