

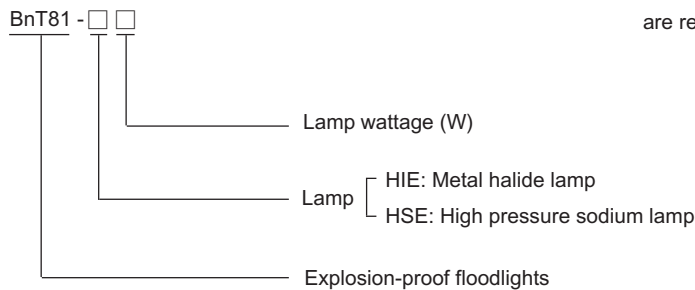


Floodlights

BnT81 Series Explosion-proof Floodlights

- ◆ Explosion protection to
 - CENELEC
 - IEC
 - NEC
- ◆ Can be used in
 - Zone 2
 - Zone 21 and Zone 22
- ◆ Available lamp (max.400W):
 - Metal halide lamp (HIE)
 - High pressure sodium lamp (HSE)
- ◆ Integral control gear, easy installation and maintenance.
- ◆ Enclosure in copper-free aluminium, powder coated external surface, rape yellow (RAL1021).
- ◆ Both American standard and European standard are available.
- ◆ The light fittings are supplied without lamp. PHILIPS lamps are recommended.

Catalogue number logic



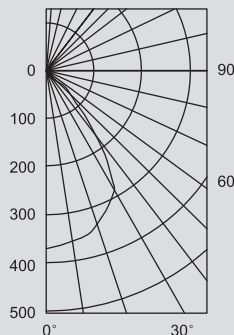
Photometric data

Photometric data of 250W metal halide lamp

Rated luminous flux:23000lm;

The data from PHILIPS lamp;

Luminous intensity distribution cd/1000lm



Angle	CP	Angle	CP
0	8658	50	4092
5	8691	55	2570
10	8577	60	1047
15	8536	65	723
20	8174	70	400
25	7812	75	75
30	7450	80	0
35	6838	85	0
40	6226	90	0
45	5615		

- 175W Metal halide lamp*0.61
- 150W High pressure sodium lamp*0.65
- 250W High pressure sodium lamp*1.22
- 400W Metal halide lamp*1.65
- 400W High pressure sodium lamp*2.08

We can provide lighting design and data by professional lighting software DIALUX based upon simulated site situation on request.

Zones 2; 21&22

Technical data														
Explosion-proof floodlights	BnT81-□□													
Explosion protection	Gas explosion protection Ex II 3 G Ex nR II T3 Gc Dust explosion protection Ex II 2 D Ex tD A21 T195°C IP66													
Certificates	Nemko 11 ATEX____; FM (USA); GOST.R (Russia); IECEx													
Conformity to standards	EN 60079-0:2009, EN 60079-15:2005, EN 61241-0:2006, EN 61241-1:2004 IEC 60079-0:2007, IEC 60079-15:2005, IEC 61241-0:2004, IEC 61241-1:2004													
Material	Enclosure Copper-free aluminium, powder coated external surface, rape yellow (RAL1021) Glass cover Toughened glass, stands 4J impact Internal reflector High-purity aluminium Ballast Chock ballast, rapid starting, stable performance Trigger General trigger Capacitor Power factor ≥ 0.85 (compensated) Exposed fastener Stainless steel													
Lamp	E40													
Lamp holder	E40													
Available lamp and lamp wattage (W)	<table border="1"> <thead> <tr> <th>Available lamp</th> <th>American standard</th> <th>European standard</th> </tr> </thead> <tbody> <tr> <td></td> <td>120V/208V/240V/277V/480V AC</td> <td>220~240V AC</td> </tr> <tr> <td>HIE</td> <td>175W, 250W, 400W</td> <td>175W, 250W, 400W</td> </tr> <tr> <td>HSE</td> <td>150W, 250W, 400W</td> <td>150W, 250W, 400W</td> </tr> </tbody> </table>		Available lamp	American standard	European standard		120V/208V/240V/277V/480V AC	220~240V AC	HIE	175W, 250W, 400W	175W, 250W, 400W	HSE	150W, 250W, 400W	150W, 250W, 400W
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	Note: Please see Seletion table of American standard HID lamp and corresponding electrical components (See P2/5)													
Rated voltage	American standard: 120V/208V/240V/277V/480V AC 60Hz (50Hz is optional) European standard: 220~240V AC 50Hz (60Hz is optional)													
Earthing protection	M5 (internal & external earth bolt)													
Degree of protection	IP66													
Ambient temperature	-20°C ~ +55°C													
Terminal	3 x 1.5~4mm ² (L+N+PE)													
Cable entries	2 x Ø21: 1 x M20 x 1.5 plug, 1 x M20 x 1.5 cable gland (DQM-I Ex e, carbon steel)													
Applicable cable outer diameter	Ø5~Ø10 (mm)													
Weight	12.85 kg													



Dimension drawings (all dimensions in mm) - subject to alteration

