

# EVOLUTION II

## Ex de ASYMMETRIC FLOODLIGHT

The Evolution II takes the unique Evolution features to a new level with greatly improved photometric performance by means of an asymmetric reflector system which gives increased light distribution, coupled with the low glare attributes associated with this type of reflector. As with the original Evolution there are no exposed flameproof paths.

The ATEX category 2 G D luminaire utilises Ex de protection and IP66/67 sealing making it suitable for use for ignitable gas and dust applications. The Evolution can be used as standard with up to 400W HID lamps or increased to 600W with a separate Ex e control gear box.

The protection is Ex de for ignitable gas applications and is dust excluding IP6X for use in ignitable dust applications. The ATEX Categories are 2 G and 2 D. Lamps up to 400W can be used and extended up to 600W with a separate Ex e control gear box.

Explosion protection for gas group IIB is standard and is suitable for ambient temperatures up to 55°C.



PTFE Coating mounted at 90°

### Standard Specification

### Features

Type of Protection	Ex de (Flameproof, Increased Safety) Dust protected enclosure
ATEX Classification	Group II Category 2 G D
Area Classification	Zone 1 and Zone 21 areas to EN 60079-10 and EN 50281-3 with installation to EN 60079-14 and EN 50281-1-2 Gas Groups IIA and IIB
Apparatus Standard	EN 50014 EN 50018 EN 50019 EN 50281-1-1
Certificate	EC Type Examination Certificate Baseefa04ATEX0155
Coding	⊕ II 2 G D EEx de IIB (refer to table for T rating and Ambient)
Enclosure	Aluminium alloy LM6 to BS 1490 All fastenings stainless steel. Toughened glass window
Reflector	Asymmetric beam, high purity anodised aluminium
Entry Termination	2 x M20 cable entries 3 core 6mm <sup>2</sup> max. conductor with looping
Installation	Stirrup mounting bracket with aiming quadrant
Control Gear	Internal copper/iron with PFC correction capacitor and timed ignitor
Relamping	Access via hinged end cover on release of single screw
Lampholder	E40 (R7s for linear Tungsten-Halogen)
Lamp Type	HPS, Metal Halide or Tungsten-Halogen
Burning Position	Universal for HID, +/-45° on horizontal plain for Tungsten-Halogen lamps
Ingress Protection	IP66/67 to EN 60529
Electrical Supply	110, 120, 220, 230, 240, 254V 50Hz HPS & Metal Halide 208V 60Hz HPS & Metal Halide (option) 12V - 250V linear Tungsten-Halogen 110V - 250V single ended Tungsten-Halogen

Installation in gas groups IIA and IIB

Easy and quick access for maintenance

Simple, rapid lamp replacement and flamepath inspection

Reduced maintenance due to no exposed flamepath

Exceptional photometric efficiency with reduced glare

Effective light distribution for many applications

IEC Ex Compliant

Optional PTFE coating available

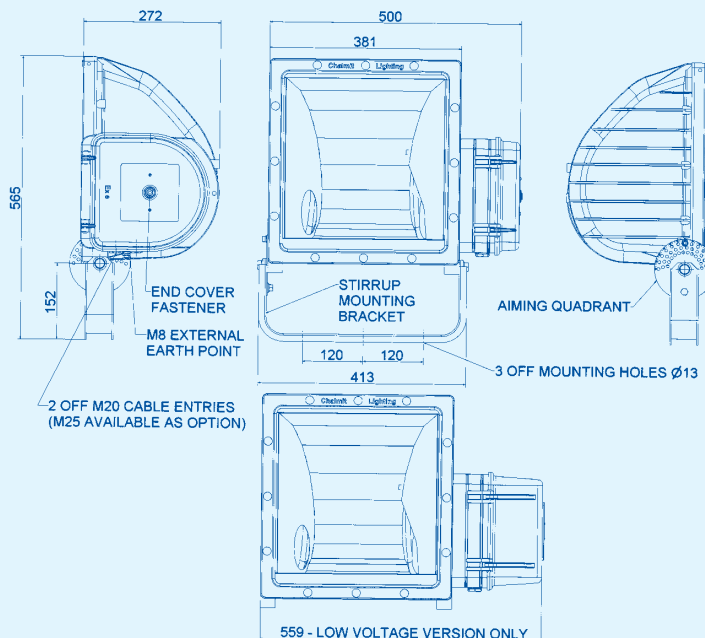
# ATEX CATEGORY 2 ZONE 1 & 21 APPLICATIONS

Std. Cat No.	Wattage	Lamp	Lampholder	T Class (Gas)	T °C (Dust)	Ambient °C	Weight
EV2D/150/MS	150W	HPS and Metal Halide	E40	T4 T3	130 175	40 55	28kg
EV2D/250/MS	250W	HPS and Metal Halide	E40	T4 T3	130 175	40 55	28.5kg
EV2D/400/MS	400W	HPS and Metal Halide	E40	T3	175	55	28.5kg
EV2D/600/HS*	600W	HPS	E40	T3	195	35	25kg
EV2D/500/TH	500W	Single Ended T/Halogen	E40	T3	195	40	25kg
EV2D/500/TL	500W	Linear T/Halogen	R7s	T3	195	55	25kg

\*Ignitor only fitted. Remote gear box required.

## Options - Suffix to Catalogue No.

/120	120V (Weight increase of +10kg)	/P	PTFE coating	/208	208V 60Hz - Input Voltage
/60	60Hz	/PE	Pendant mounted		
/M25	M25 Entries	/N	Narrow beam option		



NOTE: 120V version utilises deeper end cover (as shown above)

## Accessories (Should be ordered separately)

Accessories	Catalogue Order Code
284 retrofit bracket (allows Evolution II to pick-up 284 fixings)	SEVO1-0001
Pole mounting bracket	SEVO4-0001
Anti-glare shield	SEVO4-0019
Wire guard	SEVO4-0020
Combined glare shield and wire guard	SEV24-0001

Product design and specifications are subject to change without notice, please check the Chalmite website for latest specifications.