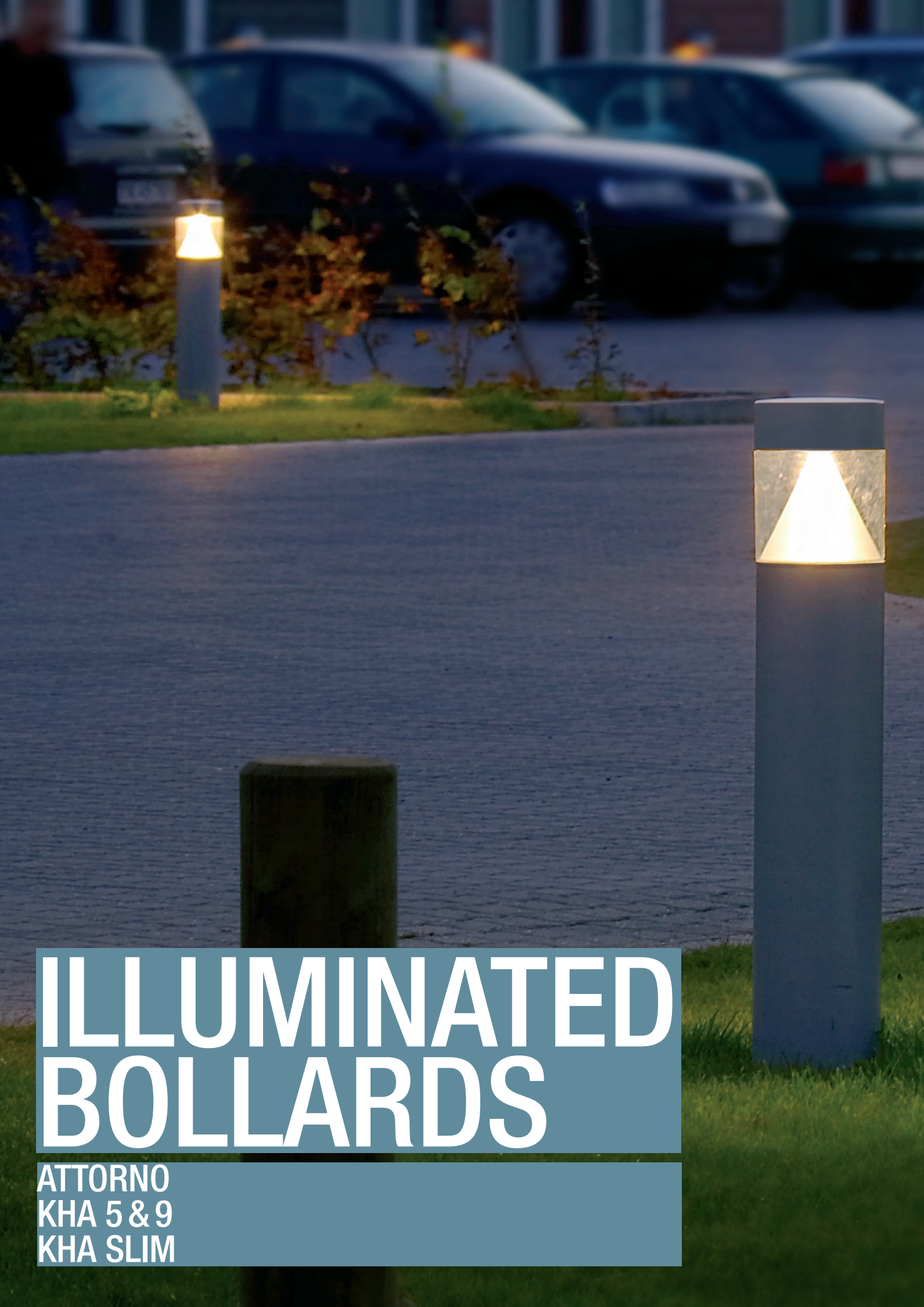
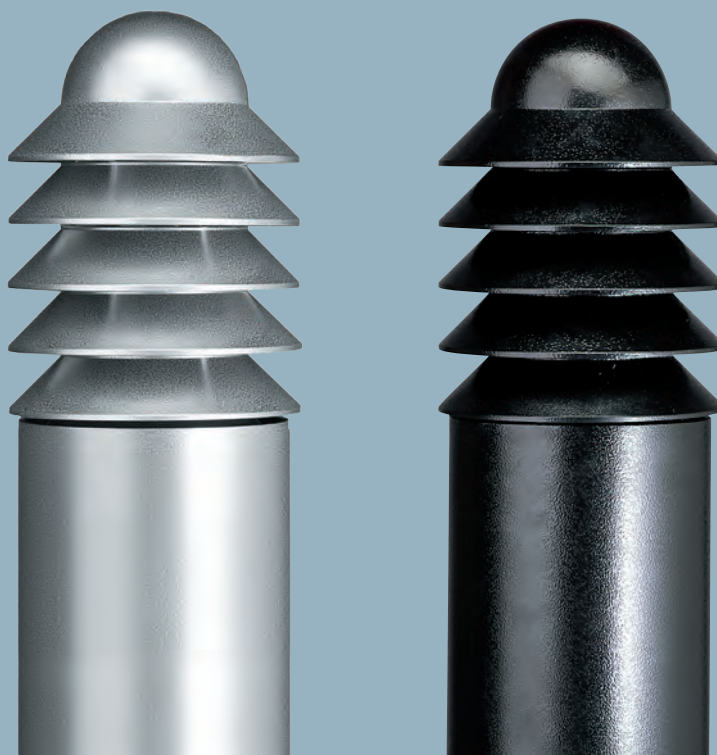




ILLUMINATED BOLLARDS

ATTORNO
KHA 5 & 9
KHA SLIM





ATTORNO

The Attorno bollard is a medium-height very robust cast metal fixture. This Australian-made luminaire features a CFL light source (with integral control gear) to project a symmetrical downward light distribution which will provide a visually comfortable illumination for footpaths, entrances and landscaped areas.

FEATURES

- Die-cast aluminium body, pre-treated and powder coated for durability
- Lens – impact resistant clear UV stabilised acrylic
- Distribution – downward
- Stainless steel fixings
- Other standard colours include silver and white, additional colours available on request
- Colour filters for special application available on request.

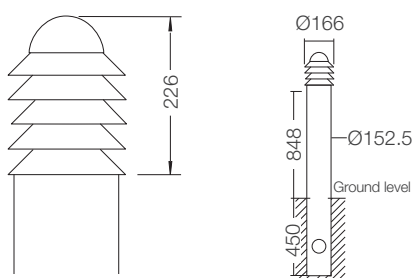
PRODUCT CODES

Attorno supplied complete with lamp and integral ferromagnetic control gear

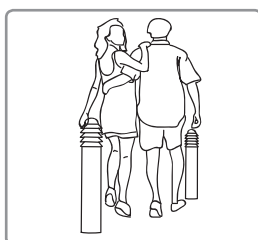
Code	Wattage	Lamp Type	Distribution	Finish
203200	18	CFL	Symmetrical	Black
203250	26	CFL	Symmetrical	Black



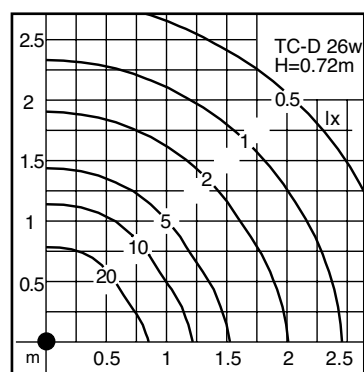
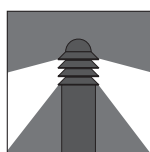
DIMENSIONS Measurements mm



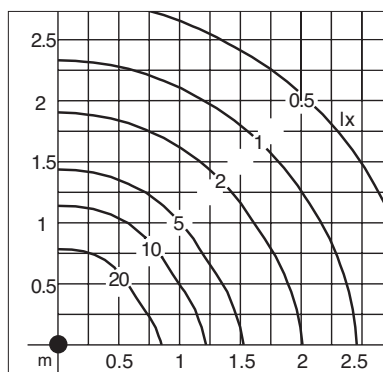
INSTALLATION & SCALE



VISUALISATION



ATTORNO SYMMETRICAL
18W CFL H=0.72M



ATTORNO SYMMETRICAL
26W CFL H=0.72M



IP55



Class I



8.5
kg
max.

SpectraTM
Lighting

KHA 5



KHA 9



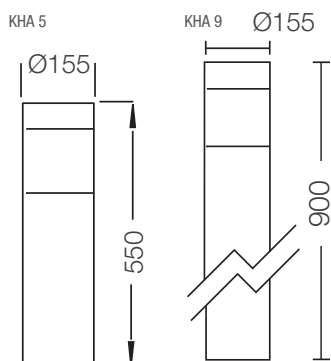
KHA 5&9

The Kha 5 & 9 are low-level illuminated bollards combining contemporary aesthetics with functional lighting. They are suitable for residential and public area lighting, parks, gardens and commercial complexes. The Kha 5 & 9 bollards are available in a variety of light sources and optics to provide high performance and yet minimise any upward light pollution. All versions feature integral control gear.

FEATURES

- 316 stainless steel or die-cast aluminium body, pre-treated and powder coated for durability
- Lens – clear UV stabilised polycarbonate
- Distribution – downward or 360° radiated
- Pure and polished anodised aluminium reflector (MH lamp only)
- Stainless steel fixings
- Wired for individual or in-series connections.

DIMENSIONS Measurements mm



PRODUCT CODES

Kha 5 with CFL Lamp and Integral Electronic Control Gear

Code	Wattage	Lamp Type	Distribution	Finish	Height (mm)
225405	26	CFL	360°	316 Stainless Steel	550
225425	26	CFL	360°	RAL 7039	550

Kha 5 with MH Lamp and Integral Ferro Magnetic Control Gear

Code	Wattage	Lamp Type	Distribution	Finish	Height (mm)
225465	35	MH	360° Downward	316 Stainless Steel	550
225485	35	MH	360° Downward	RAL 7039	550

Kha 9 CFL versions supplied complete with lamp and integral electronic control gear

Code	Wattage	Lamp Type	Distribution	Finish	Height (mm)
225555	26	CFL	360°	316 Stainless Steel	900
225575	26	CFL	360°	RAL 7039 Matt Grey	900
225585	26	CFL	360°	Black	900

Kha 9 MH versions supplied complete with lamp and integral ferromagnetic control gear

Code	Wattage	Lamp Type	Distribution	Finish	Height (mm)
225605	35	MH	360° Downward	316 Stainless Steel	900
225625	35	MH	360° Downward	RAL 7039 Matt Grey	900
225635	35	MH	360° Downward	Black	900

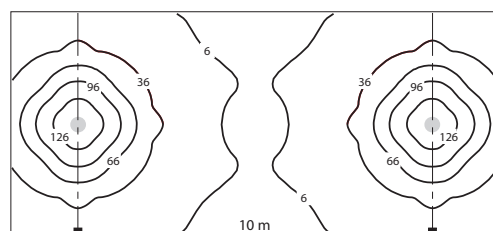
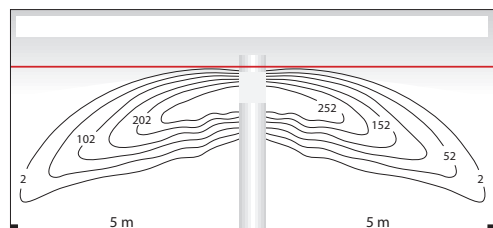
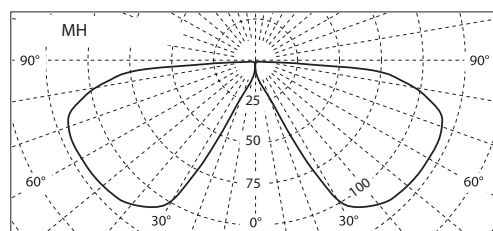
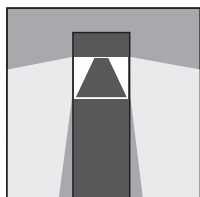
Code	Accessories
225696	a) Rag Bolt Assembly for Inground Mounting
225697	b) Anti-Dazzle Barrier – Grey (CFL Lamp only)
225698	c) Soft Glass Diffuser Lens (CFL Lamp only)
-	d) Internal Aluminium Cowl



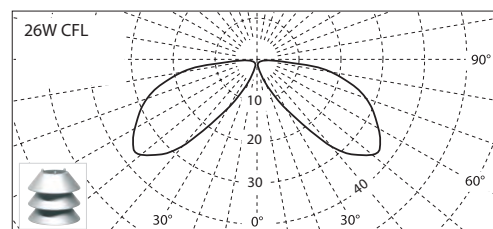


VISUALISATION

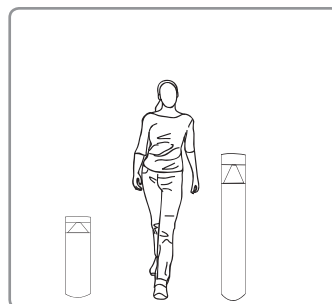
MH VERSION



CFL VERSION



INSTALLATION & SCALE



IP66



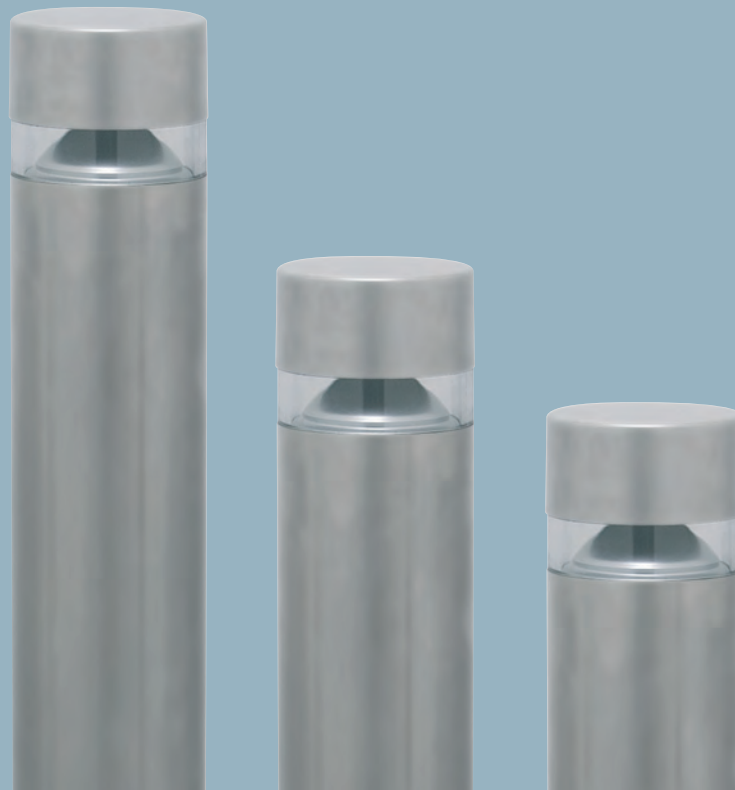
Class I



IK 10

24J

SpectraTM
Lighting



KHA SLIM

The Kha Slim Series of high-performance bollards and light poles combines style with a robust design and energy efficiency. These exclusive bollards utilise metal halide lamp technology (with integral control gear) and provide a functional yet striking lighting effect for entrances, paths, walkways, courtyards, gardens, public areas and security lighting.

These bollards are IP66 rated and manufactured in corrosion-resistant materials and high-quality finishes enabling them to be utilised on prestigious projects requiring an aesthetic solution and also for projects involving harsh ambient conditions, such as in coastal environments.

FEATURES

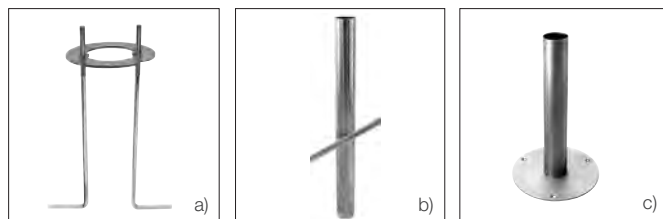
- Die-cast aluminum body, pre-treated and powder coated for durability
- Lens - clear UV stabilized polycarbonate
- Pure and polished anodised aluminum reflector
- Distribution - downward
- Stainless steel fixings
- Durable gaskets manufactured from silicone
- Wired for individual or in-series connections
- Stainless steel for special applications available on request.

PRODUCT CODES

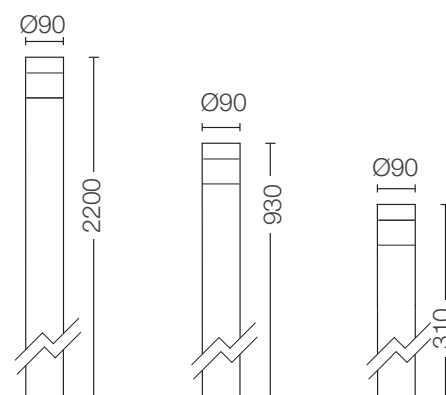
Kha Slim supplied complete with lamp and Integral Electronic Control Gear

Code	Wattage	Lamp Type	Beam	Finish	Height (mm)
225785	20	MH	360° Downward	RAL 7039 Matt Grey	310
225825	20	MH	360° Downward	RAL 7039 Matt Grey	930
225865	20	MH	360° Downward	RAL 7039 Matt Grey	2200

Code	Accessories
225899	a) Rag Bolt Assembly Kit for 0.93m version only
225898	b) Galvanized Concealed Root Mounting for 2200mm version only
225897	c) Stainless Steel Ground Mounting Circular Flange for 2200mm version

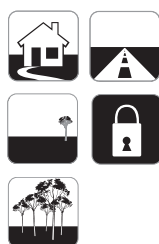
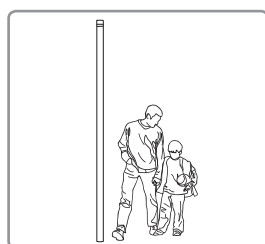


DIMENSIONS Measurements mm

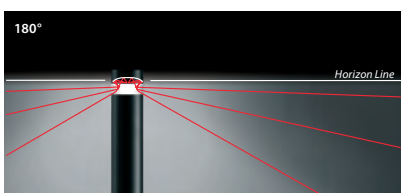




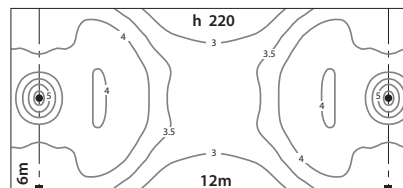
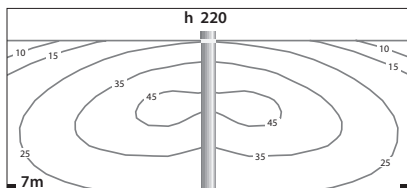
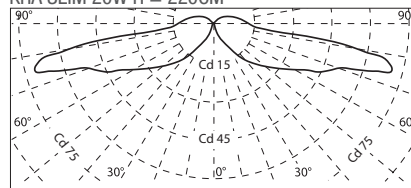
INSTALLATION & SCALE



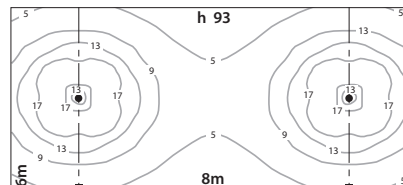
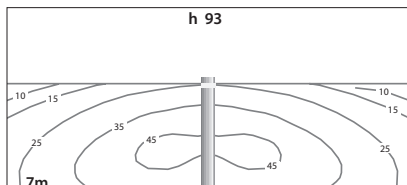
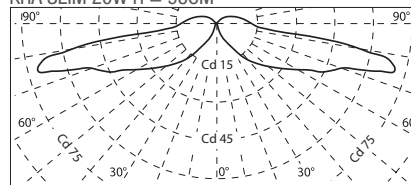
VISUALISATION



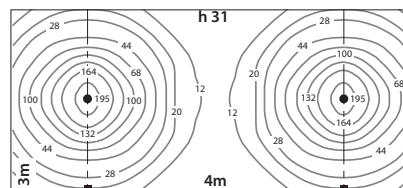
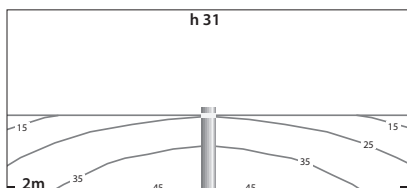
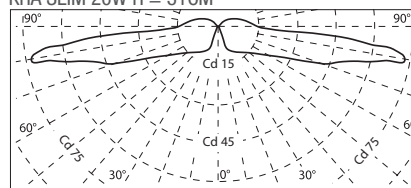
KHA SLIM 20W H = 220CM



KHA SLIM 20W H = 93CM



KHA SLIM 20W H = 31CM



IP66



Class II



IK 09
10J



SpectraTM
Lighting