

Awards
IF Design Award
ADI Design Index
Innovation Technology Design



ø 170 h 1000 ø 170 h 1000



ø 170 h 610 ø 90 h 610 ø 170 h 610 ø 90 h 610

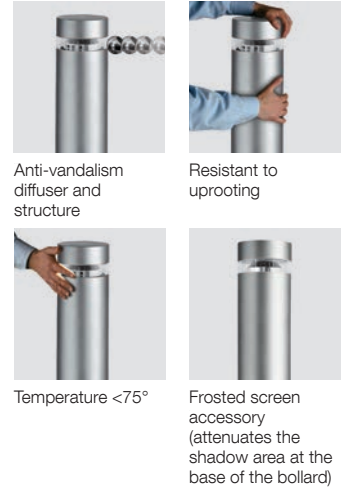


ø 170 h 250 ø 170 h 250



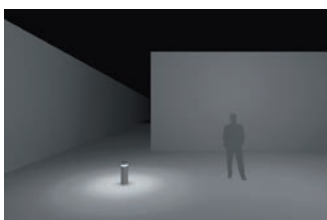
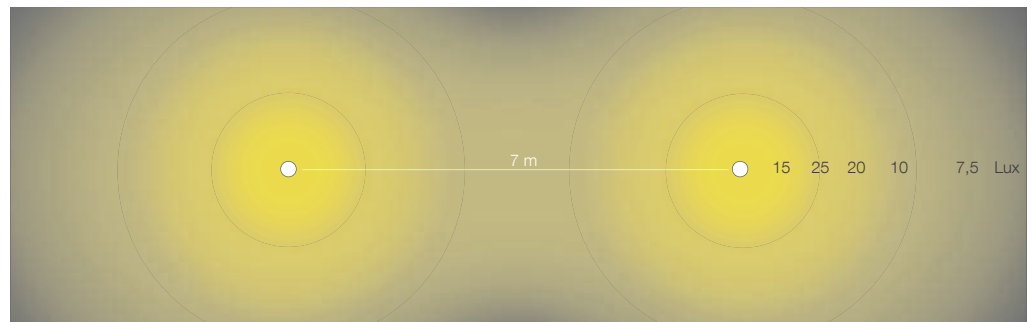
- Direct light luminaire intended for use with metal halide lamps, compact fluorescent lamps and LED light sources.
- Installation on the ground.
- Comprises body and lamp compartment.
- High visual comfort.
- Body in extruded aluminium. low copper content die-cast aluminium alloy base for fixing to the ground; transparent polycarbonate diffuser; sheet aluminium lamp cover guard; super-pure aluminium reflector.

- Component compartment in die-cast (ø 170 mm) or extruded (ø 90 mm) aluminium; removable component-holding plate, fixed to the box by captive screws.
- Counter-plate with split bars finished with Geomet for additional protection against corrosion (can be ordered separately).
- Contact temperature <math><75^{\circ}</math>.
- All screws used are in A2 stainless steel.

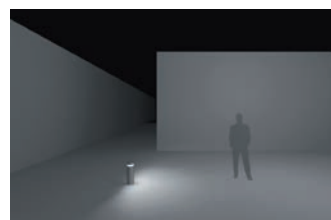


Light distributions

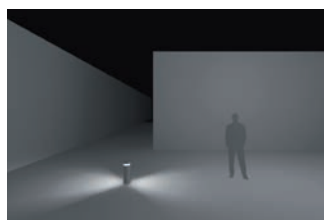
The iWay symmetrical optic on h1000 bollards allows considerable lighting design performance. The 360° luminous flux can be contained or guided with special orientation screens that can restrict the emission as reduced angles or as a thin blade of light.



360° emission



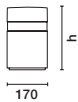
Screen for asymmetrical 180° emission



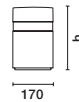
Screen for emission 90°+90°



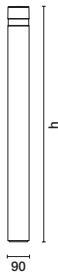
source		system			code colour
W	lm	W	lm	h	
LED					
4000K - CRI 80					
21W	2010	24,5W	965	250	BW74 15
3000K - CRI 80					
21W	1750	24,5W	840	250	BW75 15



source		system			code colour
W	lm	W	lm	h	
LED					
4000K - CRI 80					
21W	2010	24,5W	905	250	BW80 15
3000K - CRI 80					
21W	1750	24,5W	788	250	BW81 15



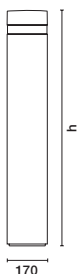
source		system			code colour
W	lm	W	lm	h	
LED					
4000K - CRI 75					
4,9W	403	6,4W	220	610	BG19 15
3000K - CRI 80					
4,9W	350	6,4W	191	610	BG20 15



source		system			code colour
W	lm	W	lm	h	
LED					
4000K - CRI 75					
4,9W	403	6,4W	185	610	BG21 15
3000K - CRI 80					
4,9W	350	6,4W	161	610	BG22 15














source		system			code colour
W	lm	W	lm	h	
LED					
4000K - CRI 80					
21W	2010	24,5W	965	610	BW76 15
21W	2010	24,5W	965	1000	BW78 15
3000K - CRI 80					
21W	1750	24,5W	840	610	BW77 15
21W	1750	24,5W	840	1000	BW79 15



source		system			code colour
W	lm	W	lm	h	
LED					
4000K - CRI 80					
21W	2010	24,5W	905	610	BW82 15
21W	2010	24,5W	905	1000	BW84 15
3000K - CRI 80					
21W	1750	24,5W	788	610	BW83 15
21W	1750	24,5W	788	1000	BW85 15



15
GREY

	 ø90		 90x90		 ø170		 170x170	
Control gear	code	colour	code	colour	code	colour	code	colour
 Junction box IP68	---	---	---	---	BZG8 00 For h250mm		BZG8 00 For h250mm	
 2-way connector with 2 pole terminal	---	---	---	---	BZH0 00 For h250mm		BZH0 00 For h250mm	
 Cable box IP55	---	---	---	---	B511 00		B511 00	
 IP66 box for pass-through cables	B512	00	B512	00	---	---	---	---
Optical accessories	code	colour	code	colour	code	colour	code	colour
 Screen for asymmetrical 180° emission	---	---	---	---	X023 04		X024 04	
 Satin-finished screen	---	---	---	---	X087 65		X088 65	
Mounting accessories	code	colour	code	colour	code	colour	code	colour
 Counter-plate with anchor bolts	B514	00	B514	00	B513	00	B513	00



ø 180
h 1000

∅ 180
h 1000



ø 180
h 610

∅ 180
h 610



ø 180
h 250

∅ 180
h 250



- Outdoor lighting system with direct light. Can be installed on the ground or floor. Designed for use with LED light sources and 180° and 360° asymmetric optics.
- The complete product comprises the optical compartment and cylindrical bollard to be ordered separately.
- The optical compartment is made up of several components: top cover in painted aluminium; flow director in PMMA; light emitting lens in transparent polycarbonate, extruded internal support with radial mount LED circuit; black painted die-cast aluminium cone; lower box housing the die-cast aluminium power supply; silicone sealing gaskets between top cover, lens and cone.
- The optical compartment is installed on the lower cylindrical bollard by a bayonet fitting and secured with two special torx type screws.

- The bollard in extruded aluminium is available with a circular or square cross-section. The interior has three stainless steel rods secured to the base strip, ensuring that the product has high impact resistance.
- The bollard is anchored to the ground by a base strip in die-cast aluminium alloy with low copper content and high corrosion resistance.
- The external parts in aluminium undergo multi-step pre-treatment: the main stages are degreasing, fluoro-zircon protective surface coating and sealing (nano-structured silane layer). The subsequent painting stage involves primer and liquid acrylic paint cured at 150 °C to ensure high resistance to atmospheric agents and UV rays.
- The lower part of the optical compartment is complete with a nickel-plated brass cable clamp and outgoing rubber cable H07RN-F 4x1mm L = 1700mm.

- DALI electronic power supply gear 220÷240, 50 / 60Hz. To adjust the luminous flux, the power supply can be programmed through a dedicated programming interface (see catalogue) and the cable emerging from the optical compartment. The power supply unit is supplied in ON-OFF mode and can be converted to Midnight mode using the same interface. The DALI power supply is compatible with remote management systems. An active control system changes the current intensity in order to maintain the lifespan of the LEDs even under extreme thermal conditions.
- The electrical connection requires IP connectors to be ordered separately.
- All external screws used are in stainless steel.



Anti-vandalism diffuser and structure



Resistant to uprooting

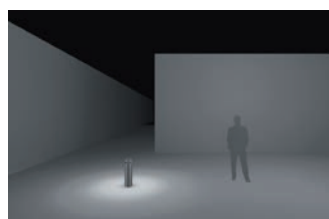
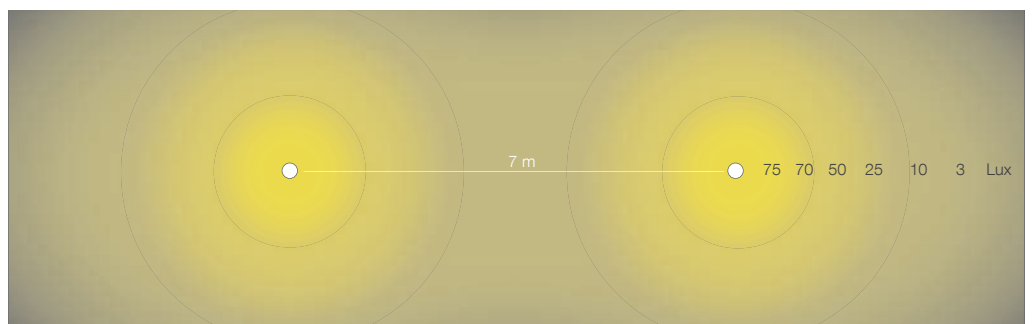


Surge-resistant power supply unit

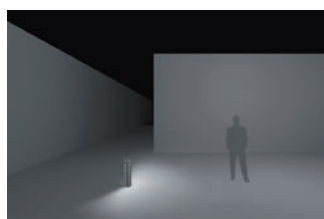
Light distributions

The iWay Super Comfort symmetrical optic on h1000 bollards ensures impressive lighting design performance.

The 360° luminous flux can be contained or guided using special aiming screens to restrict the light emission to smaller angles.



360° emission

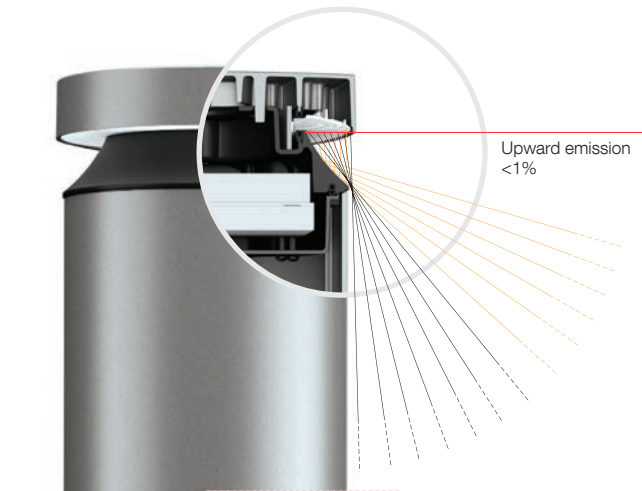


Screen for asymmetrical 180° emission

iWay Super Comfort

Visual comfort

Comfort increases the more the LED source is hidden from view. iWay Super Comfort has an Upward <math><1\%</math> emission and a completely shielded light source, thereby ensuring visual well-being in space.



Composition

The product comprises a bollard and an iWay Super Comfort luminaire to be ordered separately.

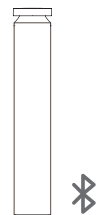


Bollard h169 + lighting body = h250
Bollard h529 + lighting body = h610
Bollard h919 + lighting body = h1000

BLE-DALI 4 Interface IP66

Smart device using the Bluetooth Low Energy protocol (integrated in the product) capable of activating management of lighting (smart light control) and the beacon (smart services: Space Management Push notification and Indoor Navigation).

* Interface X478 to be order separately.
Maximum spacing - 9m

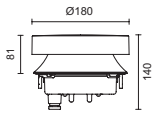


Forte Michelangelo - Civitavecchia, Italy

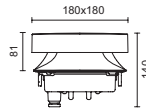
Architectural and lighting design:
Technical Office of the Port Authority
of Civitavecchia, Fiumicino and Gaeta
Photos: Riccardo Budini / Looma

new

Optic with 180° light emission: Available from July
Optic with 360° light emission: Available from June



source		system		optic	code colour
W	lm	W	lm		
Optics with 180° emission					
LED					
4000K - CRI 80 - DALI					
-	-	6W	330	E180°	EN98 04-15-F5
3000K - CRI 80 - DALI					
-	-	6W	330	E180°	EN96 04-15-F5
Optics with 360° emission					
LED					
4000K - CRI 80 - DALI					
-	-	13,1W	731	E360°	EN99 04-15-F5
3000K - CRI 80 - DALI					
-	-	13,1W	731	E360°	EN97 04-15-F5



source		system		optic	code colour
W	lm	W	lm		
Optics with 180° emission					
LED					
4000K - CRI 80 - DALI					
-	-	6W	330	E180°	EP02 04-15-F5
3000K - CRI 80 - DALI					
-	-	6W	330	E180°	EP00 04-15-F5
Optics with 360° emission					
LED					
4000K - CRI 80 - DALI					
-	-	13,1W	602	E360°	EP03 04-15-F5
3000K - CRI 80 - DALI					
-	-	13,1W	602	E360°	EP01 04-15-F5





h	code colour
Bollard	
169	EP13 04-15-F5
529	EP15 04-15-F5
919	EP17 04-15-F5






Height measurements refer to the bollard and base strip without the lighting body.





h	code colour
Bollard	
169	EP12 04-15-F5
529	EP14 04-15-F5
919	EP16 04-15-F5

Height measurements refer to the bollard and base strip without the lighting body.

Interfaces & remote units	code	colour
 BLE-DALI 4 Interface		
2.4GHz - 4 DALI addresses max - Integrated beacon - VIN = 220-240Vac - dim. 235x80x68 mm	X478	00
 Programming Interface DALI	MY92	00

Control gear	code	colour
 Y connector with 5 poles IP68		
For the connection of the DMX or DALI signal cable and power supply cable	BZN7	00 Not suitable on h169mm
 2-way junction connector - IP68	X188	00
 4-way junction connector - IP68	X189	00
 IP68 junction female connector		
5 poles - 50 / 120V	X554	04
 2-way IP68 male/female junction connector		
5 poles - 250/400V - DMX	X566	04 Not suitable on h169mm

Mounting accessories	code	colour
 Counter-plate with anchor bolts	B513	00
 Support plate for Y-connector and BLE-Dali 4	X529	00