

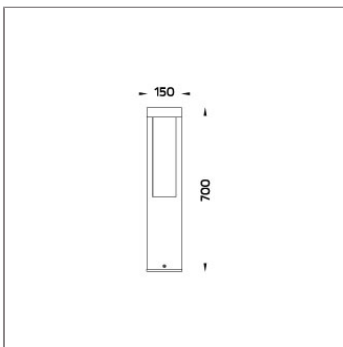
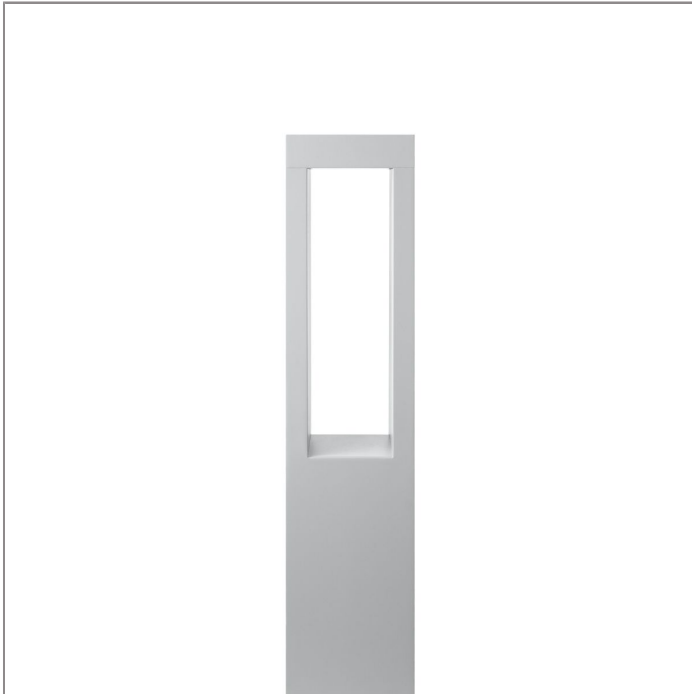
# BICEPS

## BICEPS

## BOLLARD



LAST UPDATE: 30-05-2024



BICEPS is a light tower and bollard designed for architectural spaces with functional low glare light output. It is generally installed in walkways, parks, commercial areas and open spaces to illuminate the areas and give direction to people. It is designed and built for a high power COB LED utilizing top performance vacuum metalized reflector. It generates an even symmetrical downward light distribution and emits no upward light in accordance to light pollution regulation. Manufactured in impact resistant welded aluminium structure and maximized thermal management through integrated heat sink. Available in six colors and coated with Nano Ceramic film and super durable polyester powder. BICEPS is a bold statement to a modern landscape. The new addition to BICEPS series. The new BICEPS pole light with asymmetric light distributions enables a wider installation spacing without compromising the visual comfort. The light column is available with single sided or double-sided light emission. The single sided configuration produces minimal amount of back lighting for comfortable glare free light installations. The minimized amount of up light makes BICEPS asymmetric suitable for sensitive lighting projects.

### Technical Data



Ordering Code :	7180-0-5-905-XX
Lamp :	LED
CCT :	4000 K
CRI :	CRI >80
SDCM :	SDCM = 3
Lamp Lumen :	3390 lm
Luminaire Lumen :	820 lm
Lamp Wattage :	23 W
Luminaire Wattage :	25 W
Efficacy :	32 lm/W
Ambient Temperature :	40°C
Lumen Maintenance	L70B10 >90,000 h
Controller :	DALI
Input Voltage :	220-240Vac 50/60Hz
Net Weight :	6.40 kg.

#### Ordering code guide

XXXX-X-X-XXX-XX

A B C D E

- A Product Code
- B Reflector
- C Electrical Component
- D Lamp
- E Color



Icon definition

\*Due to the constancy of product development, we reserve the right to alter all specification without prior notice.

Unilamp Co., Ltd.  
461 Ramintra Road, Kannayao, Bangkok 10230 Thailand  
Tel : +66(0)2 943 2420-1, +66(0)2 946 4170-1  
Fax : +66(0)2 943 2419  
online@unilamp.co.th  
www.unilamp.co.th

# BICEPS

## BICEPS

## BOLLARD

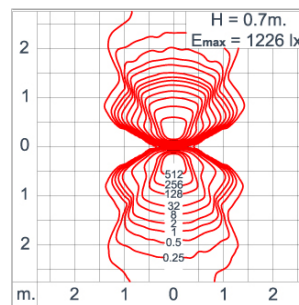
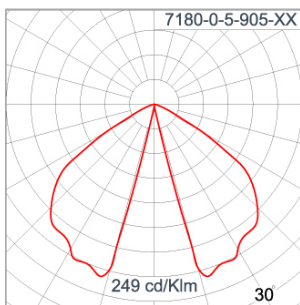


LAST UPDATE: 30-05-2024

### Specification

IEC Standard	IEC 60598-1 General Requirement IEC 60598-2-1 Fixed Luminaires												
Protection	IP66 Class I												
IK Rating	Protection against mechanical impact IK10 on body.												
Luminaires Body Housing	Extruded aluminum 56063 alloy body with low copper content. High-pressure die cast aluminum alloy body and components.												
Coating Process	Nano Ceramic surface conversion, resistant to corrosive environment. Luminaire primarily coated with epoxy resin and top coated with UV stabilized polyester powder and cured in digital temperature controlled chamber at 200°C.												
Diffuser	Impact resistant safety tempered glass cover. Able to withstand the temperature up to 250°C.												
Gasket	Weather resistant silicone gasket. Working temperature -40°C to +200°C.												
External Screws	External screws are in stainless steel with protection grease.												
Cable Entry	Cable entry protected by M20 cable gland. To be used with H05RN-F/ H07RN-F cable with 7-13mm. diameter.												
Led	High efficiency LED module in COB technology. Assembled on MCPCB and mounted on to heat conductive material.												
Driver	High quality DALI Driver in constant current. Conform to applicable safety standards and electromagnetic compatibility.												
Internal Wire	Tinned copper conductor with silicone insulated internal wire. IMQ approved. Working temperature -40°C to +180°C.												
Terminal Block	Terminal block in GFR PA6.6 for cable with cross section up to 2.5 sqmm. VDE approved. Class1 luminaire provided with the earth connection.												
Caution	Installation work has to be carried on according to the enclosed installation manual.												
Color	<table><tr><td></td><td>Black O1</td></tr><tr><td></td><td>Graphite O2</td></tr><tr><td></td><td>Dark Grey O3</td></tr><tr><td></td><td>Aluminum Silver O4</td></tr><tr><td></td><td>White O6</td></tr><tr><td></td><td>Wooden Brown O7</td></tr></table>		Black O1		Graphite O2		Dark Grey O3		Aluminum Silver O4		White O6		Wooden Brown O7
	Black O1												
	Graphite O2												
	Dark Grey O3												
	Aluminum Silver O4												
	White O6												
	Wooden Brown O7												

### Light Distribution



\*Due to the constancy of product development, we reserve the right to alter all specification without prior notice.

Unilamp Co., Ltd.  
461 Ramintra Road, Kannayao, Bangkok 10230 Thailand  
Tel : +66(0)2 943 2420-1, +66(0)2 946 4170-1  
Fax : +66(0)2 943 2419  
online@unilamp.co.th  
www.unilamp.co.th

# BICEPS

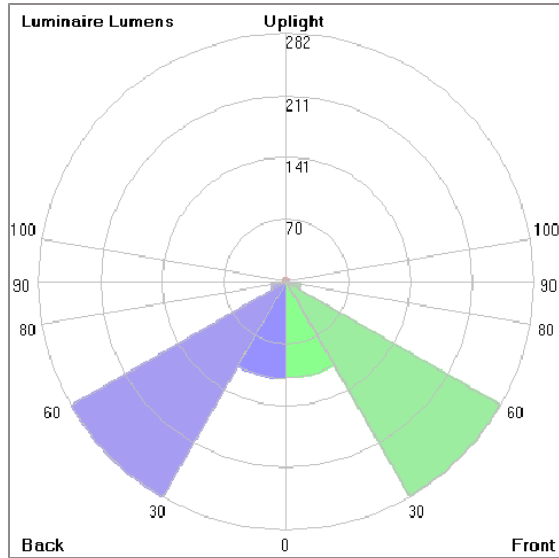
BICEPS

BOLLARD



LAST UPDATE: 30-05-2024

## Bug Report



### Lum. Classification System [LCS]

LCS	Zone	%Lumens	%Lamp	%Lum
FL	[0-30]	109.1	3.2	13.3
FM	[30-60]	279.9	8.3	34.2
FH	[60-80]	16.5	0.5	2.0
FVH	[80-90]	0.6	0.0	0.1
BL	[0-30]	109.9	3.2	13.4
BM	[30-60]	281.8	8.3	34.4
BH	[60-80]	16.9	0.5	2.1
BVH	[80-90]	0.6	0.0	0.1
UL	[90-100]	< 0.05	0.0	0.0
UH	[100-180]	4.2	0.1	0.5
<b>Total</b>		<b>819.5</b>	<b>24.1</b>	<b>100.0</b>
<b>BUG Rating</b>		<b>B1-U1-GO</b>		

\*Due to the constancy of product development, we reserve the right to alter all specification without prior notice.

# BICEPS

## BICEPS

## BOLLARD



LAST UPDATE: 30-05-2024

### Accessories



Ordering Code:  
AUN-CON-0011-00  
IP68 connection device,  
cable diameter 7.1-13mm,  
1-10V or DALI



Ordering Code:  
AUN-CON-0012-00  
IP68 connection device 5  
pole, cable diameter  
7.1-13mm, with distribution  
block , 1-10V or DALI



Ordering Code:  
AUN-CON-0014-00  
IP68 connection device,  
cable diameter 8-12.5mm,  
1-10V or DALI



Ordering Code:  
AUN-ACB-0002-00  
Anchor bolt kit, bollard