

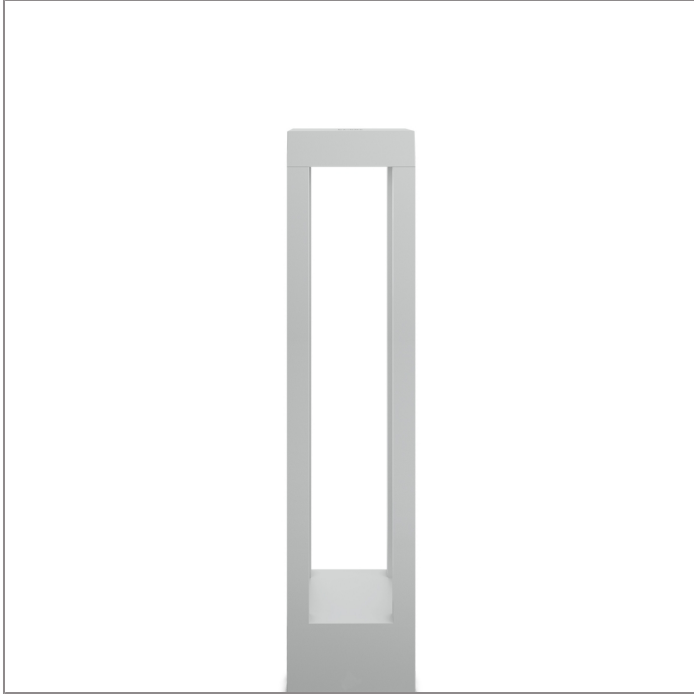
# BICEPS

BICEPS 4S

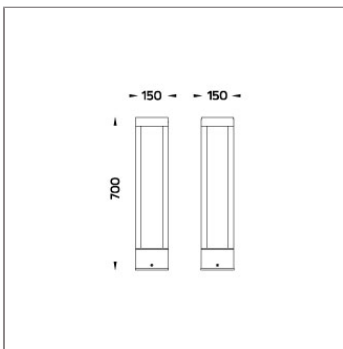
BOLLARD

 **Unilamp**

LAST UPDATE: 17-09-2024



BICEPS is a family of luminaires designed for architectural spaces with functional low glare light output. Two different types of bollards and a light column make up the BICEPS family. The luminaires are suitable for pathways, parks, commercial areas and open spaces. Manufactured from corrosion resistant aluminum extrusions and a specially formulated LM6 aluminum alloy [LM6+], BICEPS is suitable for harsh environments.



## Technical Data



Ordering Code :	7812-0-3-869-XX
Lamp :	LED
CCT :	3000 K
CRI :	CRI >80
SDCM :	SDCM = 3
Lamp Lumen :	930 lm
Luminaire Lumen :	570 lm
Lamp Wattage :	10 W
Luminaire Wattage :	10 W
Efficacy :	57 lm/W
Ambient Temperature :	50°C
Lumen Maintenance	L70B10 >45,000 h
Controller :	On-Off [AC LED]
Input Voltage :	220-240Vac 50/60Hz
Net Weight :	3.40 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 4S

### BOLLARD

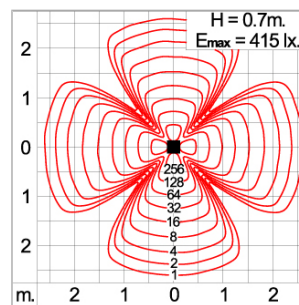
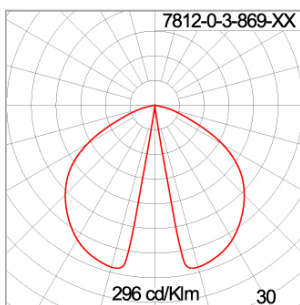


LAST UPDATE: 17-09-2024

#### 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.												
Led	High quality AC LED module. Conform to safety standard and electromagnetic compatibility standard.												
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.												
Pre-Wire Cable	Pre-wired with 3x0.75 sqmm. H05RN-F neoprene cable. IMQ approved.												
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

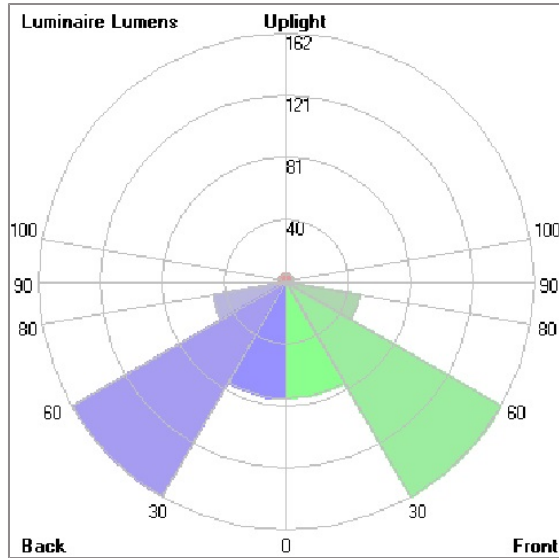
BICEPS 4S

BOLLARD



LAST UPDATE: 17-09-2024

## Bug Report



### Lum. Classification System [LCS]

LCS	Zone	%Lumens	%Lamp	%Lum
FL	[0-30]	75.7	8.0	13.1
FM	[30-60]	161.7	17.0	27.9
FH	[60-80]	48.7	5.1	8.4
FVH	[80-90]	0.8	0.1	0.1
BL	[0-30]	75.9	8.0	13.1
BM	[30-60]	161.4	17.0	27.8
BH	[60-80]	48.8	5.1	8.4
BVH	[80-90]	0.8	0.1	0.1
UL	[90-100]	1.6	0.2	0.3
UH	[100-180]	4.8	0.5	0.8
Total		580.2	61.1	100.0
BUG Rating				BO-U1-G0

\*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 4S

### BOLLARD



LAST UPDATE: 17-09-2024

#### Accessories



Ordering Code:  
AUN-CON-0009-00  
IP68 connection device,  
cable diameter 5-9.5mm,  
On-Off



Ordering Code:  
AUN-CON-0010-00  
IP68 connection device 3  
pole, cable diameter  
5-9.5mm, with distribution  
block



Ordering Code:  
AUN-CON-0013-00  
IP68 connection device,  
cable diameter 7-11.5mm,  
On-Off



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



Ordering Code:  
AUN-SUR-0003-00  
Surge protection, 10kV,  
On-Off, pre-assembly from  
factory

\*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