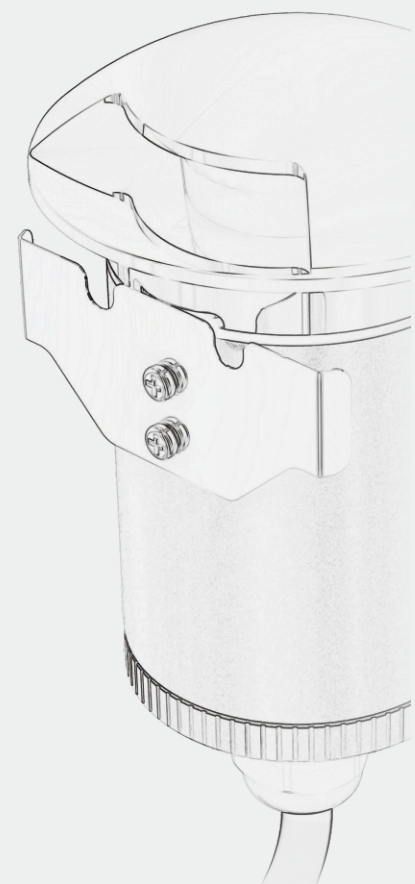




OUTDOOR LIGHTING

- **IP**68 design with integral thermal management
- High precision mechanism
- Optimally thermal management



IP68 Outdoor Lighting

Patented Design
High Precision Mechanism
Optimally Thermal Management
In-ground, Underwater or Outdoor Application

Long Term Reliability

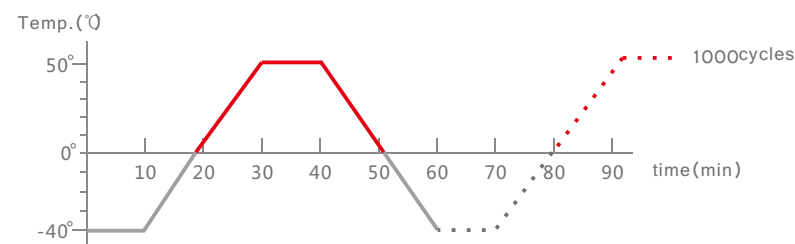
— Qualified by most rigorous test

1. Power & Temperature Cycle/**Condition**

Power: 5min on (Led operates at 500mA) , 5min off ,

Temperature: Ta = -40°C...50°C

Test time: 1000 cycles (procedure as below graph)

**2. Power On & Temperature & Humidity Test /****Condition**

Power: On (Led operates at 500mA) ;

Temperature: Ta = 55°C, 85% R.H. ; Test time: 80hrs

3. Temperature & Humidity Storage /**Condition**

Power: Off.

Temperature: Ta = 85°C, 85% R.H.

Test time: 1000hrs

4. IP Grade-Water Immersion test /IP**Condition**

Power the luminaire (led works at 500mA)

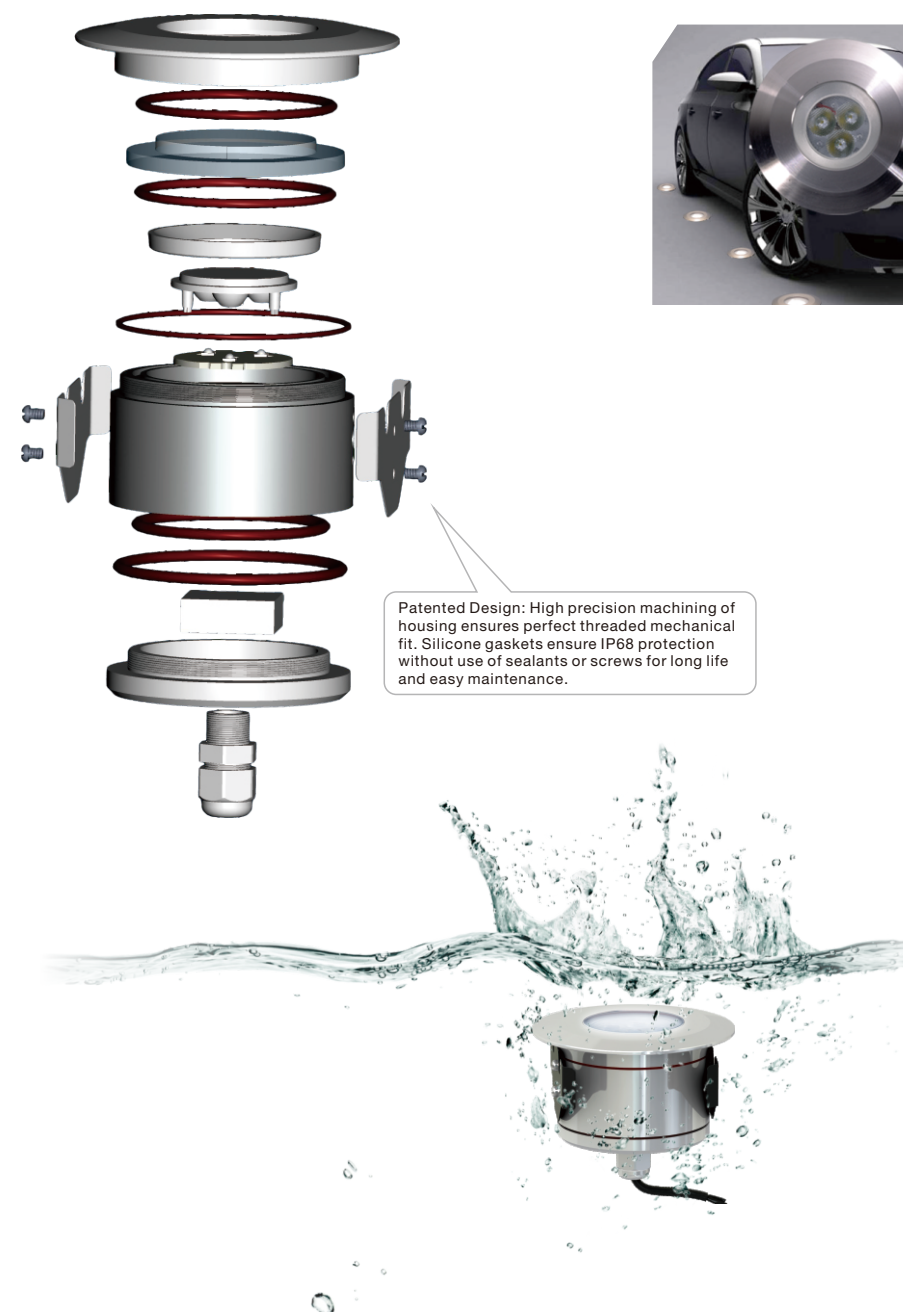
for 2 hours, then power off

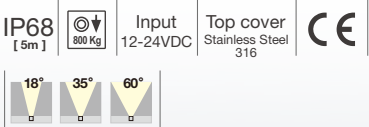
Immerse the luminaire into 1.4m deep water for 0.5 hours

5. Compression Test**Condition**

compress the luminaire with force increasing at a rate of 5,000N per minute, and remain 1 minute at 20,000N then load is released

- Patented IP68 optics design pumps out heat from LED to maintain thermal characteristics for optimal long life performance
- IP68 Stability is attained through high precision machining of housing for perfect threaded mechanical fit. IP68 protection without use of glue or sealants that are subject to change in extreme environments ensures long life and easy maintenance.
- Robust fixture construction is able to bear 1,000 KGS compression, compliant with IK10





Quickinfo

GENERAL
underground
IP 68

LED
CREE LED module
2700K, 3000K, 4000K
CRI > 80, CRI>90
Bining < 3-Step MacAdam

ESTIMATED LED LIFETIME
L80 / 50,000h

OPTICAL
direct illumination
beam angle 18°, 35°, 60°

PHYSICAL
top cover: stainless steel 316
body: anodized aluminium

Function

A perfect marker light for in-ground, underwater or outdoor application.
IP68 design with integral thermal management for long life.
High precision machining ensures perfect mechanical fit for long life.
8 mm Tempered glass lens support 800 kg “driver over” performance,
High reliability, maintenance free.

Very low surface temperature lens can be touched without injury
Suitable for indoor applications in bathroom, kitchens, bars when lens may be touched without injury.

Features



Body: Anodized Aluminium
Glass: tempered glass

Order options

COLOUR TEMPERATURE
2700K
3000K
4000K

COLOUR RENDERING INDEX
CRI 80
CRI 90

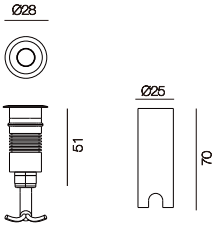
LENS
18°Beam
35°Beam
60°Beam



LIGHTING DISTRIBUTION TYPE

DORI Micro

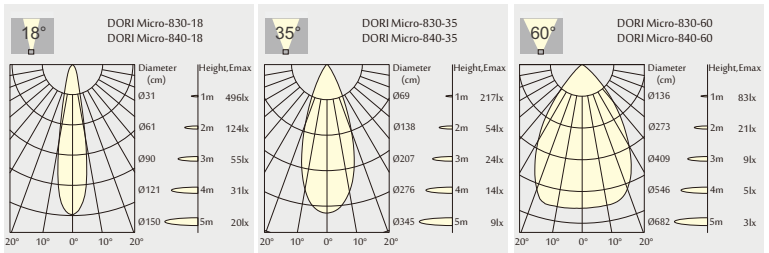
3000K
(Standard)



Light distribution for 3000K



1.5W 80 lm-85 lm



Order Information

DORI Micro 80-85 Lm MODELS (With CREE LED, DC-DC Driver)							
Code	Lumen output	Input Voltage	LED Power	System Power	CRI	CCT	BEAM
DORI Micro-830-18	80 lm	12-24 V	1W	1.5W	83	3000K	18°
DORI Micro-840-18	85 lm	12-24 V	1W	1.5W	83	4000K	18°
DORI Micro-830-35	80 lm	12-24 V	1W	1.5W	83	3000K	35°
DORI Micro-840-35	85 lm	12-24 V	1W	1.5W	83	4000K	35°
DORI Micro-830-60	80 lm	12-24 V	1W	1.5W	83	3000K	60°
DORI Micro-840-60	85 lm	12-24 V	1W	1.5W	83	4000K	60°

IP68
[5m]

800 Kg

Input
12-24VDC

Top cover
Stainless Steel
316



18°

35°

60°



Quickinfo

GENERAL

underground

IP 68

LED

CREE LED module

2700K, 3000K, 4000K

CRI > 80, CRI>90

Bining < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50,000h

OPTICAL

direct illumination

beam angle 18°, 35°, 60°

PHYSICAL

top cover: stainless steel 316

body: anodized aluminium

Function

A perfect marker light for in-ground, underwater or outdoor application.

IP68 design with integral thermal management for long life.

High precision machining ensures perfect mechanical fit for long life.

8 mm Tempered glass lens support 800 kg “driver over” performance,

High reliability, maintenance free.

Very low surface temperature lens can be touched without injury

Suitable for indoor applications in bathroom, kitchens, bars when lens may be touched without injury.

Features



Body: Anodized Aluminium
Glass: tempered glass

Order options

COLOUR TEMPERATURE

2700K

3000K

4000K

COLOUR RENDERING INDEX

CRI 80

CRI 90

LENS

 30° Beam

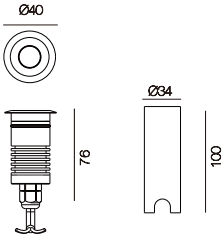
 45° Beam

LIGHTING DISTRIBUTION TYPE



DORI Nano

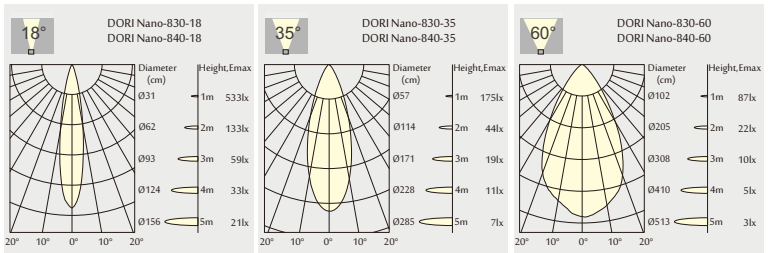
3000K
(Standard)



Light distribution for 3000K

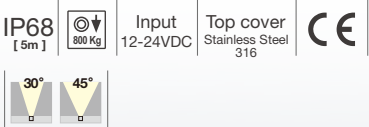


1.5W 80 lm-85 lm



Order Information

DORI Nano 80-85 Lm MODELS (With CREE LED, DC-DC Driver)							
Code	Lumen output	Input Voltage	LED Power	System Power	CRI	CCT	BEAM
DORI Nano-830-18	80 lm	12-24 V	1W	1.5W	83	3000K	18°
DORI Nano-840-18	85 lm	12-24 V	1W	1.5W	83	4000K	18°
DORI Nano-830-35	80 lm	12-24 V	1W	1.5W	83	3000K	35°
DORI Nano-840-35	85 lm	12-24 V	1W	1.5W	83	4000K	35°
DORI Nano-830-60	80 lm	12-24 V	1W	1.5W	83	3000K	60°
DORI Nano-840-60	85 lm	12-24 V	1W	1.5W	83	4000K	60°



Quickinfo

GENERAL
underground
IP 68

LED
CITIZEN LED module
2700K, 3000K, 4000K
CRI > 80, CRI>90
Bining < 3-Step MacAdam

ESTIMATED LED LIFETIME
L80 / 50,000h

OPTICAL
direct illumination
beam angle 30°, 45°

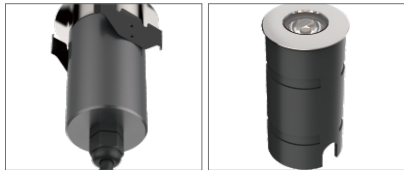
PHYSICAL
top cover: stainless steel 316
body: anodized aluminium

Function

A perfect marker light for in-ground, underwater or outdoor application.
IP68 design with integral thermal management for long life.
High precision machining ensures perfect mechanical fit for long life.
8 mm Tempered glass lens support 800 kg “driver over” performance,
High reliability, maintenance free.

Light emission: one emission, two opposite emissions.
Very low surface temperature lens can be touched without injury
Suitable for indoor applications in bathroom, kitchens, bars when lens may be touched without injury.

Features



Body: Anodized Aluminium
Glass: tempered glass

Order options

COLOUR TEMPERATURE
2700K
3000K
4000K

COLOUR RENDERING INDEX
CRI 80
CRI 90

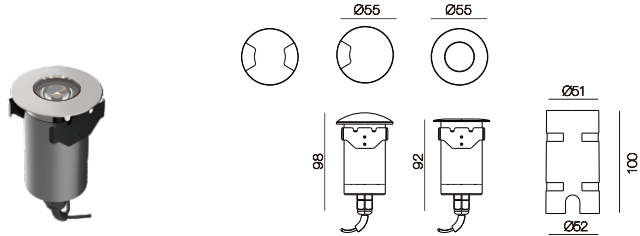
LENS
30°Beam
45°Beam



LIGHTING DISTRIBUTION TYPE

DORI Mini

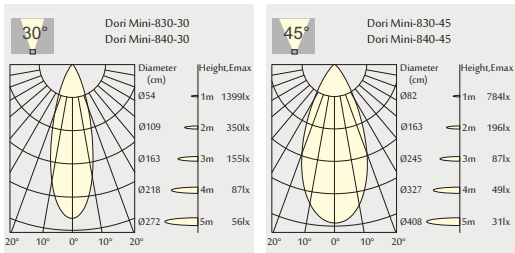
3000K
(Standard)



Light distribution for 3000K



5.5W 500 lm-550 lm



Order Information

Dori Mini 500-550Lm MODELS (With CITIZEN LED,DC-DC Driver)							
Code	Module output	Input Voltage	LED Power	System Power	CRI	CCT	BEAM
Dori Mini-830-30	500 lm	24 V	5W	5.5 W	83	3000K	30°
Dori Mini-840-30	550 lm	24 V	5W	5.5 W	83	4000K	30°
Dori Mini-830-45	500 lm	24 V	5W	5.5 W	83	3000K	45°
Dori Mini-840-45	550 lm	24 V	5W	5.5 W	83	4000K	45°

IP68
[5m]

800 Kg

Input
12-24VDC

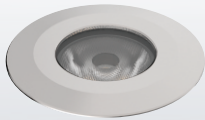
Top cover
Stainless Steel
316



20°

30°

50°



Quickinfo

GENERAL

underground
IP 68

LED

CITIZEN LED module
2700K, 3000K, 4000K
CRI > 80, CRI>90
Bining < 3-Step MacAdam

ESTIMATED LED LIFETIME

L80 / 50,000h

OPTICAL

direct illumination
beam angle 20°, 30°, 50°

PHYSICAL

top cover: stainless steel 316
body: anodized aluminium

Function

A perfect marker light for in-ground, underwater or outdoor application.

IP68 design with integral thermal management for long life.

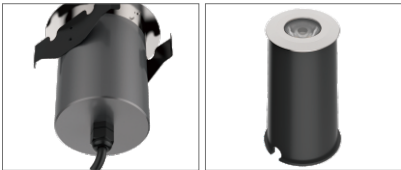
High precision machining ensures perfect mechanical fit for long life.

8 mm Tempered glass lens support 800 kg “driver over” performance, High reliability, maintenance free.

Very low surface temperature lens can be touched without injury

Suitable for indoor applications in bathroom, kitchens, bars when lens may be touched without injury.

Features



Body: Anodized Aluminium
Glass: tempered glass

Order options

COLOUR TEMPERATURE

2700K
3000K
4000K

COLOUR RENDERING INDEX

CRI 80
CRI 90

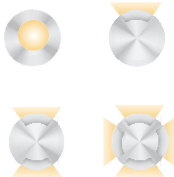
LENS

20°Beam

30°Beam

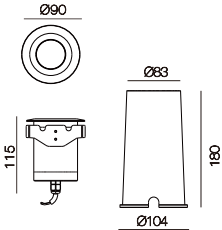
50°Beam

LIGHTING DISTRIBUTION TYPE



DORI Maxi

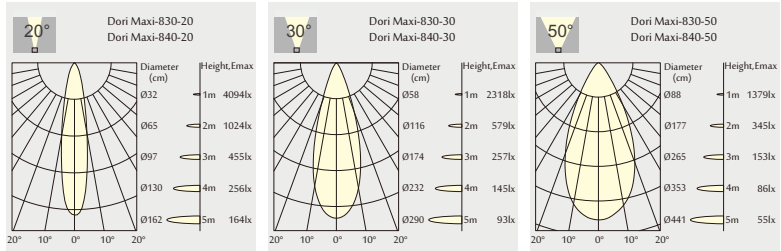
3000K
(Standard)



Light distribution for 3000K



10W 850 lm-900 lm



Order Information

Dori Maxi 850-900Lm MODELS (With CITIZEN LED,DC-DC Driver)							
Code	Module output	Input Voltage	LED Power	System Power	CRI	CCT	BEAM
Dori Maxi-830-20	850 lm	24 V	9W	10 W	83	3000K	20°
Dori Maxi-840-20	900 lm	24 V	9W	10 W	83	4000K	20°
Dori Maxi-830-30	850 lm	24 V	9W	10 W	83	3000K	30°
Dori Maxi-840-30	900 lm	24 V	9W	10 W	83	4000K	30°
Dori Maxi-830-50	850 lm	24 V	9W	10 W	83	3000K	50°
Dori Maxi-840-50	900 lm	24 V	9W	10 W	83	4000K	50°