



CATALOGUE

LIGHTING 2018



TMTech Electronics Co., Ltd. was founded on August 7th, 2015 and all of our products brand TMTech.

We are lucky to approach the policy of Mr. Abe Shinzō (Japan) “Supporting Vietnamese young enterprise to improve”. We own modern electronics product line of Yamaha Motor Japan, experience engineers and expert in led light field.

WE PARTICIPATE IN ELECTRONICS FIELD AND LED LIGHTING EQUIPMENT:

- Led Lighting Indoor: Down Light, Track light, Wall Light, Linear, And more, etc.
- Led Lighting Outdoor: Linear (Wall Washer), Garden Light, In Ground, In Water, Flood Light and more.
- Customized Lighting.
- Special Lighting: Street Light, Lighting for Ship Yard.
- Electronics Product: Led driver, Driver Dimmer, Power Supply; Controller Lighting: DMX512, Art Net, KNX, Dali, etc.
- Software Development.
- Electronics Service: SMT, Electronics design.
- Solution of lighting control (Lighting Management) Green Building.



COLOR TEMPERATURE

A light bulb that produces light perceived as yellowish white will have a color temperature of around 2700K. As the color temperature increases to 3000K - 3500K, the color of the light appears less yellow and more white. When the color temperature is 5000K or higher the light produced appears bluish white. The color temperature of daylight varies, but is often in the 5000K to 7000K range.



2700K

3000K

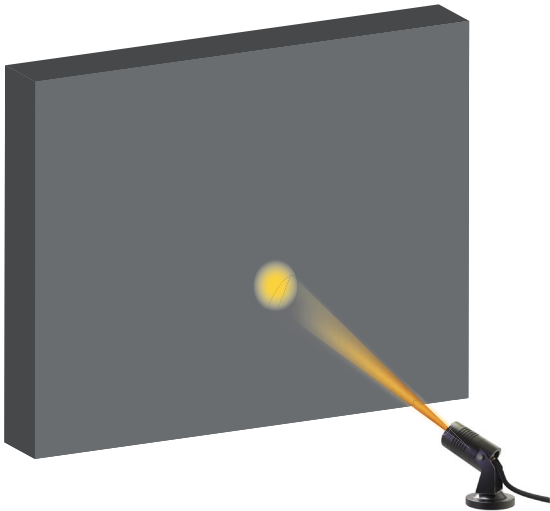
3500K

4000K

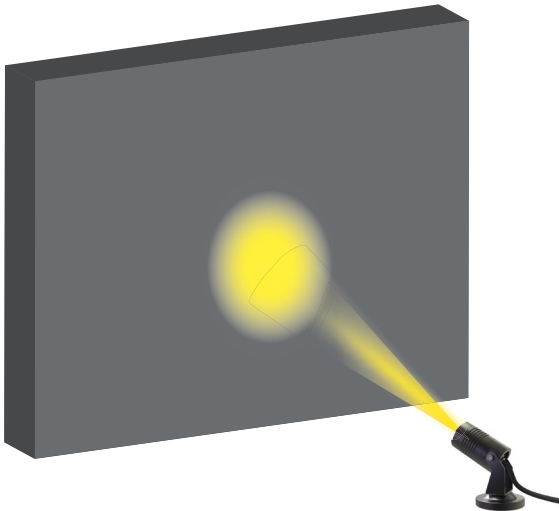
5000K

6000K

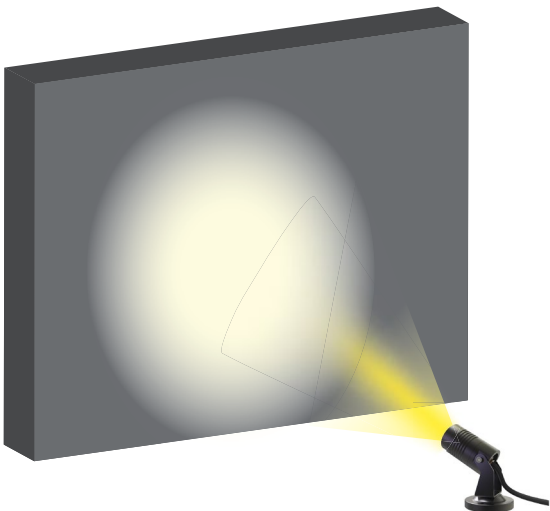
BEAM ANGLES



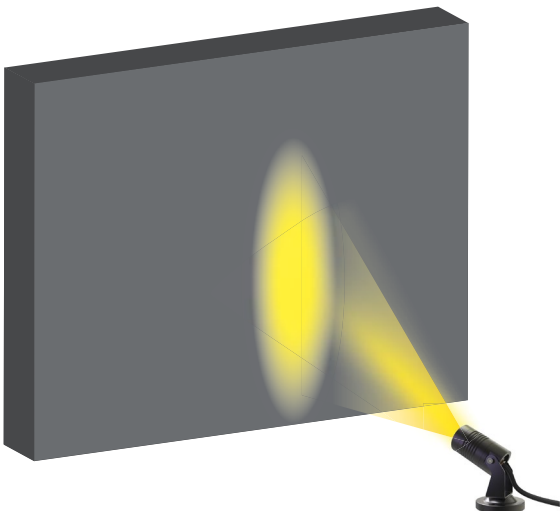
Beam Angle: 5°
Angle(X7X8): 01



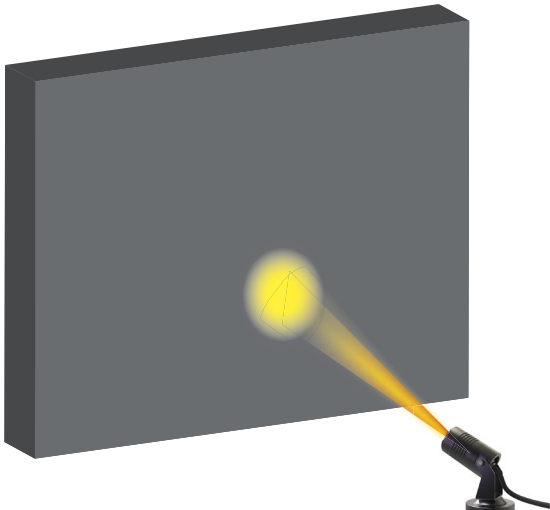
Beam Angle: 20°
Angle(X7X8): 04



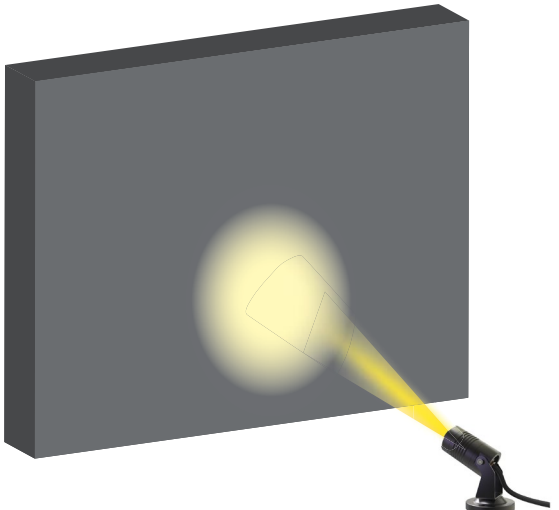
Beam Angle: 80°
Angle(X7X8): 08



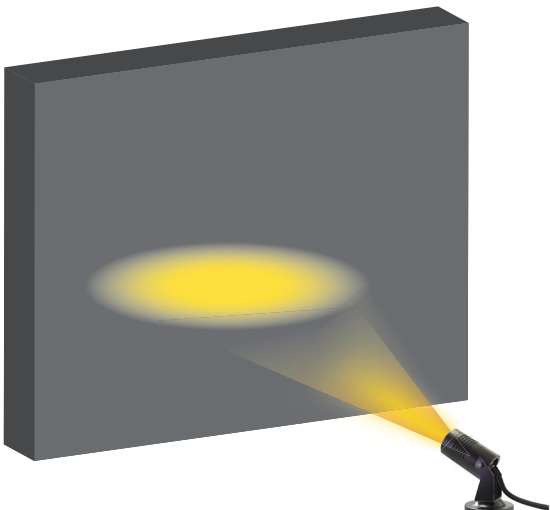
Beam Angle: 60°x15°
Angle(X7X8): 6B



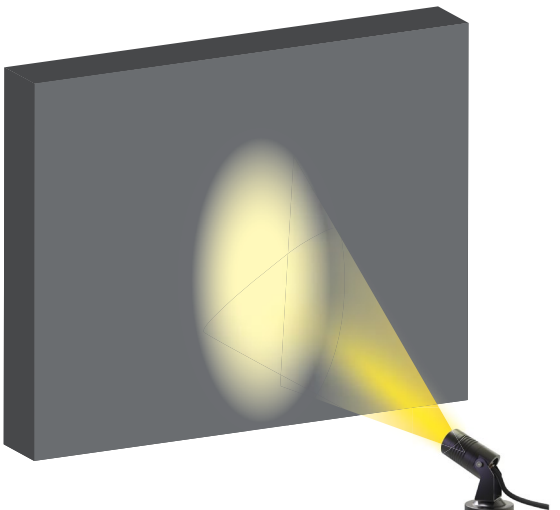
Beam Angle: 10°
Angle(X7X8): 02



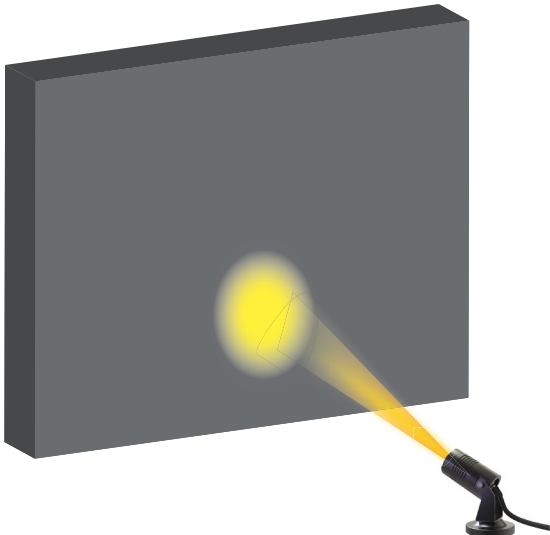
Beam Angle: 40°
Angle(X7X8): 05



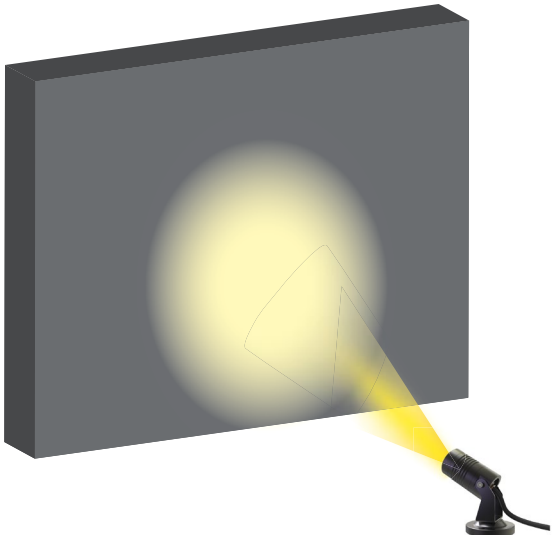
Beam Angle: 15°x60°
Angle(X7X8): B6



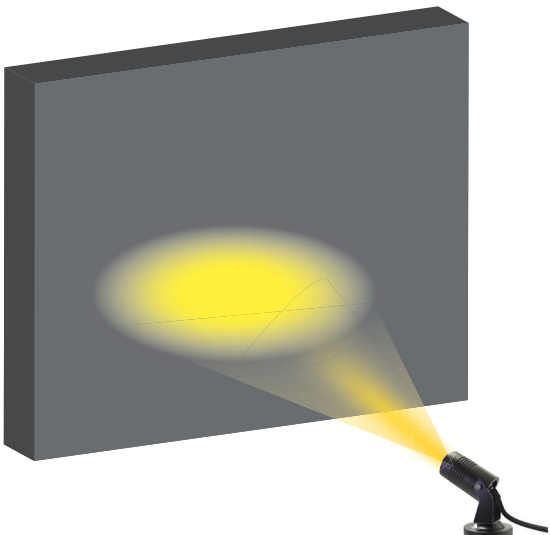
Beam Angle: 60°x30°
Angle(X7X8): 63



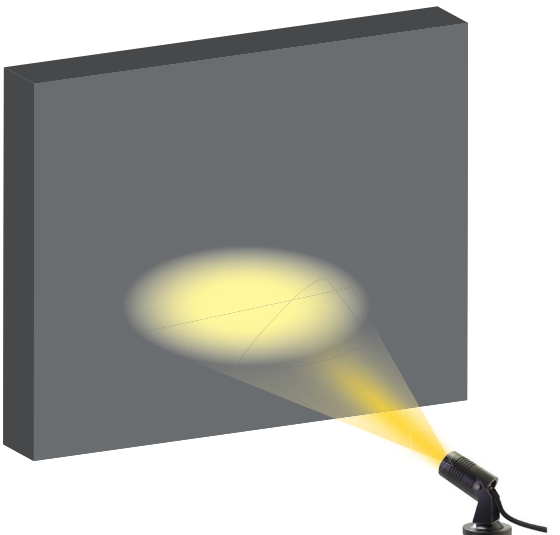
Beam Angle: 15°
Angle(X7X8): 03



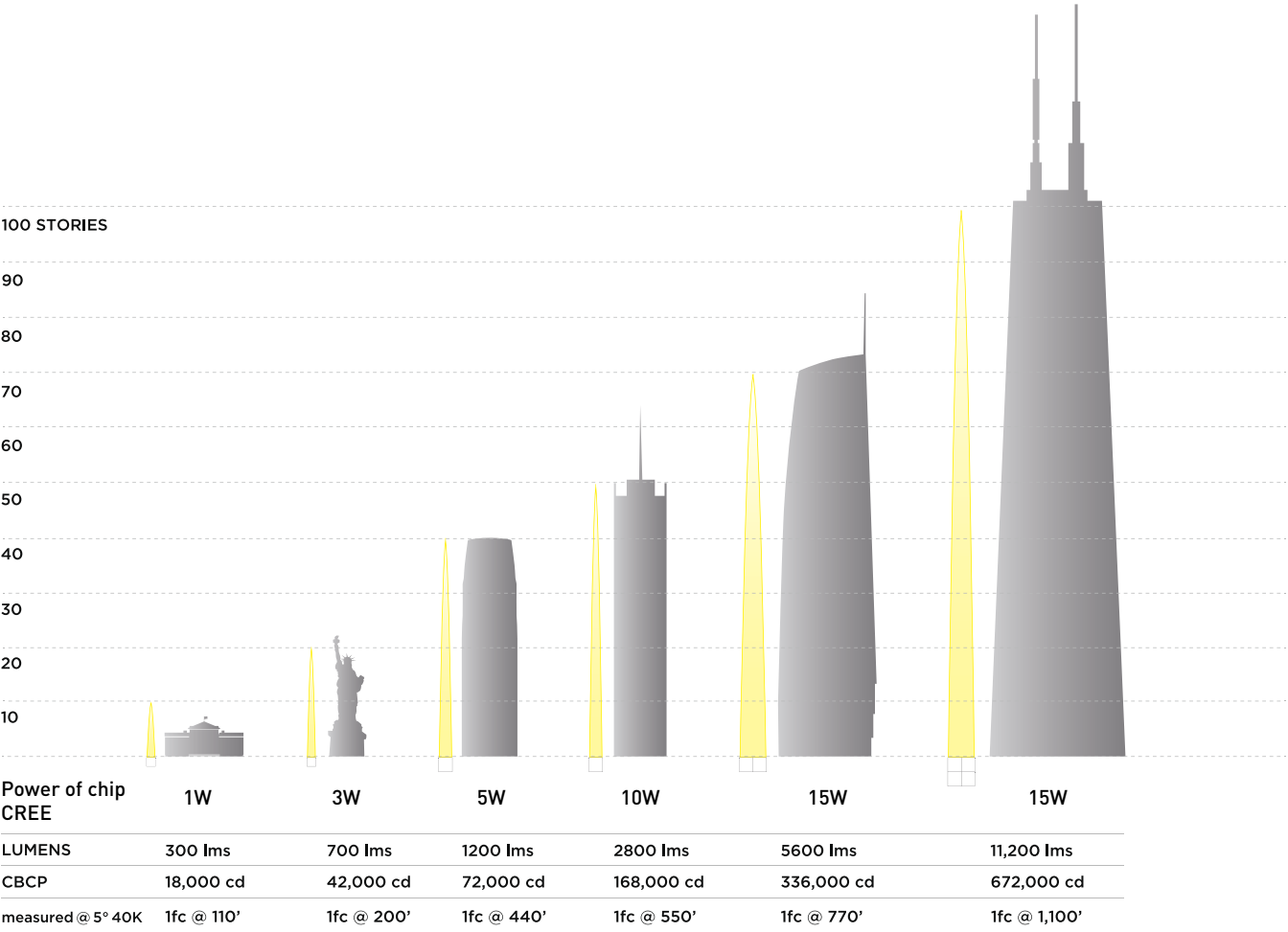
Beam Angle: 60°
Angle(X7X8): 07



Beam Angle: 30°x60°
Angle(X7X8): 36



Beam Angle: 20°x40°
Angle(X7X8): 24



Beam Angle Table:

Beam Angle (degree)	Diffuser	05	10	15	24	36	45	60	90	120	10x40	10x90
Code Angle (X7X8)	00	01	02	03	04	05	06	07	08	09	A4	A9



01 PROJECTORS

02 INGROUND AND INWATER LUMINAIRES

03 LINEAR LIGHT

04 WALL LUMINAIRES RECESSED

05 WALL LUMINAIRES SURFACE MOUNTED

06 BOLLARDS AND PATHWAY LUMINAIRES

07 AREA FLOODLIGHTS

08 STREET AND AREA LIGHTING

09 POLES

10 MEDIA & FACADE LIGHTING

11 CEILING LUMINAIRES

12 BED LIGHT

13 INDUSTRIAL LIGHTING

14 PENDENT LIGHTS

LIGHTING

PROJECTORS



CANON-4S



CANON-8S



RAZE-3S



RAZE-6S



SIWA-12S



BENY-22S



IMBUTO-24S



IMBUTO-54S



CLARA-4.5S



SANA-6S



SANA-9S



SANA-18S



SANA-32S



SANA-50S

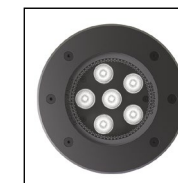
INGROUND AND INWATER LUMINAIRES



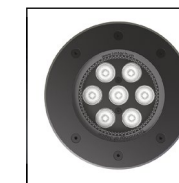
BURY-4



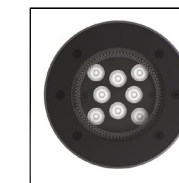
BURY-5



BURY-6



BURY-7



BURY-8



BURY-9



BURY-10



BURY-12



BURY-14



BURY-18



BURY-27



BURY-48



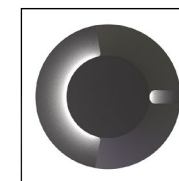
RADIN-005S



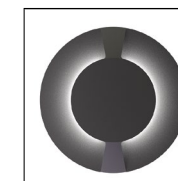
RADIN-009S



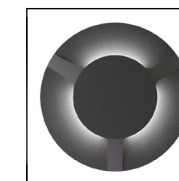
GYROS-18S



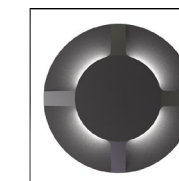
SOCO 1-6S



SOCO 2-6S



SOCO 3-6S



SOCO 4-6S



EGOR-6S



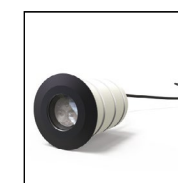
EGOS-6S



EGO-3S



DOLLI-2S



DOLLI-6S



DOLLI-9S



VITUS-3S



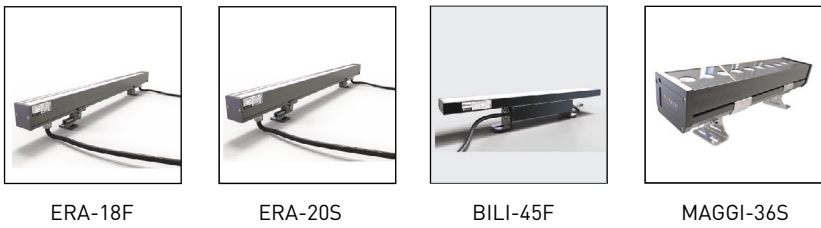
VITUS-4S



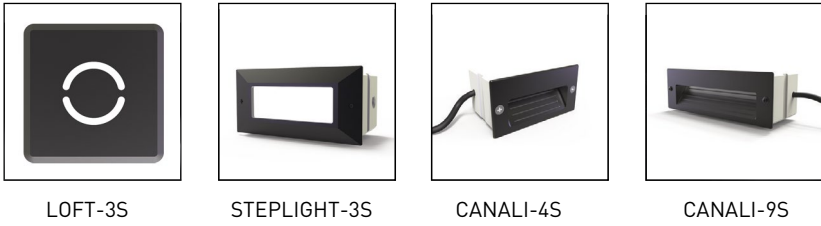
MONA-8S



LINEAR LIGHT



WALL LUMINAIRES RECESSED



WALL LUMINAIRES SURFACE MOUNTED



BOLLARDS AND PATHWAY LUMINAIRES



AREA FLOODLIGHTS



STREET AND AREA LIGHTING



POLES



MEDIA & FACADE LIGHTING



CEILING LUMINAIRES



BED LIGHT



INDUSTRIAL LIGHTING



PENDENT LIGHTS



01 PROJECTORS



CANON-4S



CANON-8S



RAZE-3S



RAZE-6S



SIWA-12S



BENY-22S



IMBUTO-24S



IMBUTO-54S



CLARA-4.5S



SANA-6S



SANA-9S



SANA-18S



SANA-32S



SANA-50S

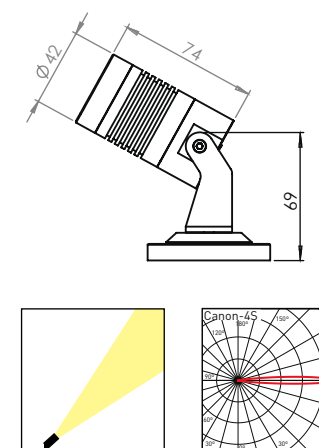
CANON-4S



Specification

- Dimension: Ø42mm x L74mm
- Input Voltage: 24VDC
- Power consumption: 4W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24° (orther : 10°, 15°, 36°, 45°, 60°, 90° ...)
- Function Dimmer: None
- Material: Face: Anodized Aluminium, Glass
- Finishing (Color housing): Black
- IP: 65
- Class: III

Dimension



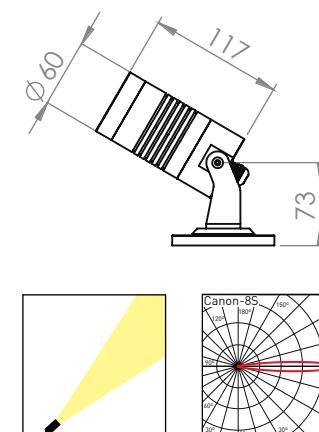
CANON-8S



Specification

- Dimension: Ø60mm x 117mm x 73mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 8W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 30° (orther : 10°, 15°, 36°, 45°, 60°, 90° ...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: I

Dimension



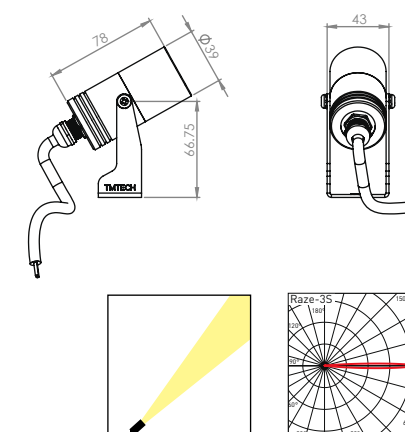
RAZE-3S



Specification

- Dimension: Ø39mm x 78mm
- Input Voltage: 24VDC
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 8° (14°, 24°, 36°, 60°)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 67
- Class: III

Dimension



RAZE-6S

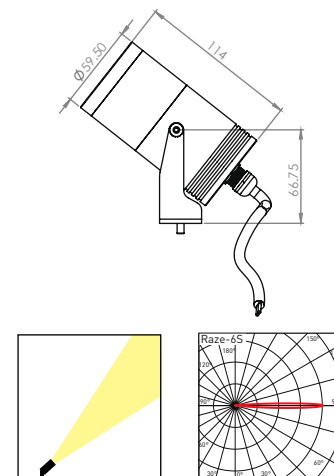


Specification

- Dimension: Ø59mm x 114mm
- Input Voltage: 90-265VAC (43-60Hz)
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 8° (14°, 24°, 36°, 60°)
- Function Dimmer: None
- Material: Face: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: I



Dimension



IMBUTO-24S

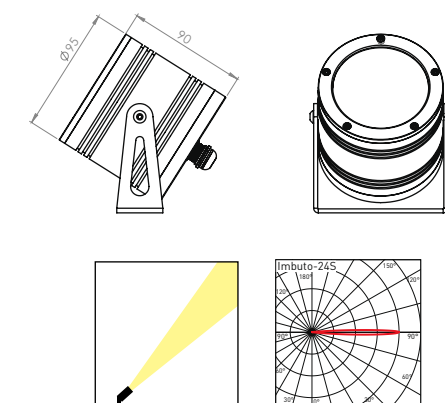


Specification

- Dimension: Ø95mm x H90mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 24W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 67 (Application for Spot Light in humidity high)
- Class: I



Dimension



SIWA-12S

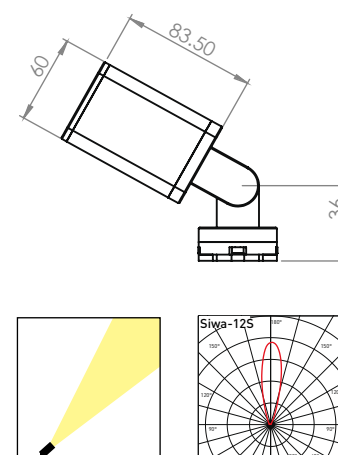


Specification

- Dimension: 60mm x L83.5mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 65
- Class: I



Dimension



IMBUTO-54S

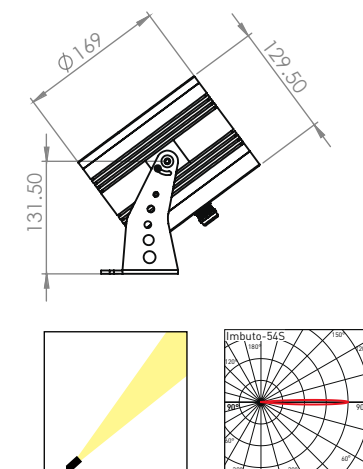


Specification

- Dimension: Ø169mm x H130mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 54W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 67 (Application for Spot Light in humidity high)
- Class: I



Dimension



BENY-22S

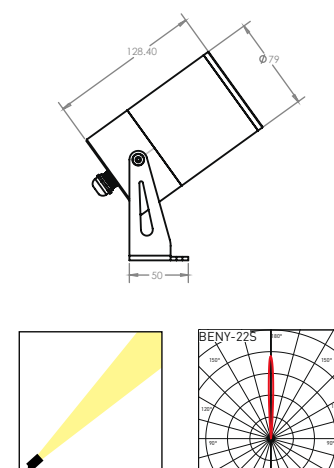


Specification

- Dimension: Ø79 mm x L128 mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 22W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 65
- Class: I



Dimension



CLARA-4.5S

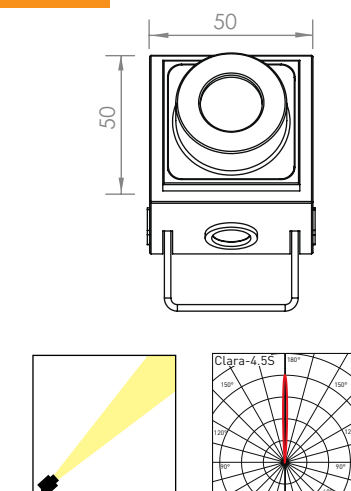


Specification

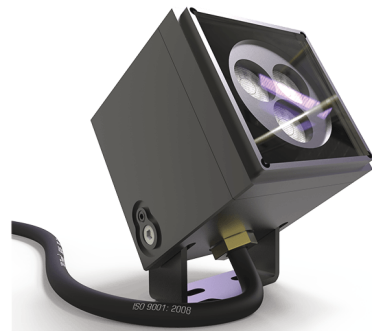
- Dimension: L50mm x W50mm x H69.5mm
- Input Voltage: 24VDC
- Power consumption: 4.5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None (DMX512, Dali, 0-10V)
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 66
- Class: III



Dimension



SANA-6S

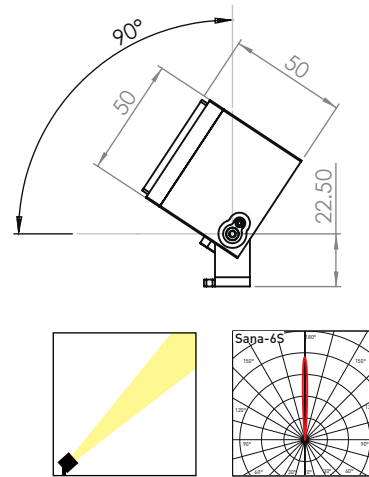


Specification

- Dimension: 50 x 50mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 11° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: III



Dimension



SANA-32S

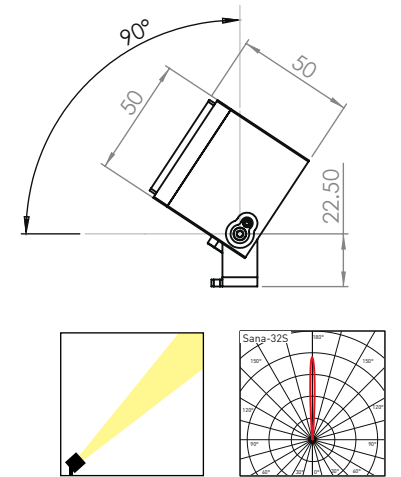


Specification

- Dimension: 130mm x 130mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 32W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther angle please contact us)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 66
- Class: III



Dimension



SANA-9S

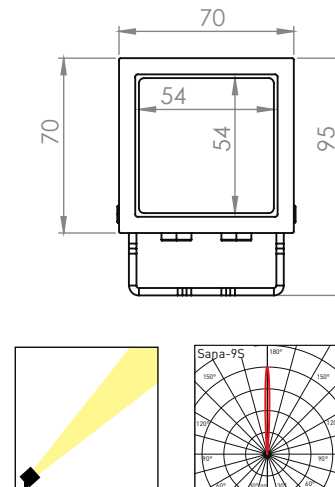


Specification

- Dimension: 70mm x 70mm x 95mm
- Input Voltage: 36VDC/24VDC
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: PWM (Voltage Adjust 5-36VDC)
- Material: Aluminium
- Finishing (Color housing): White Gray
- IP: 66
- Class: III



Dimension



SANA-50S

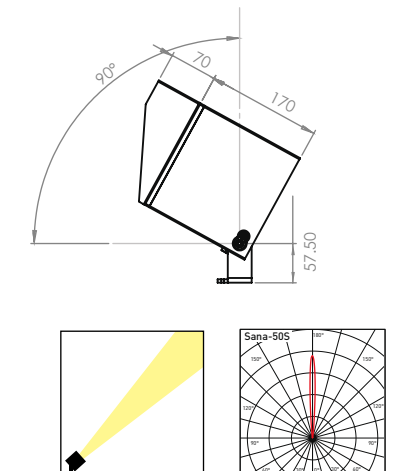


Specification

- Dimension: Face 170 x H 170 mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 50W
- Efficiency: 88%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Anodized Aluminium, Glass
- Finishing (Color housing): Gray
- IP: 66
- Class: I



Dimension



SANA-18S

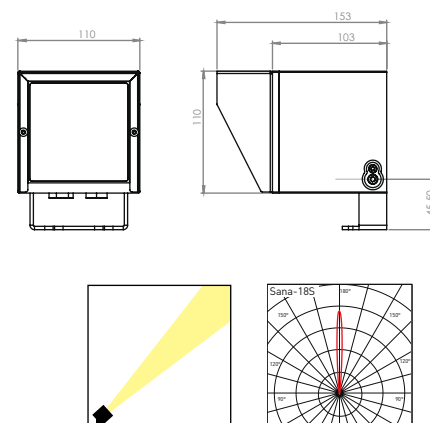


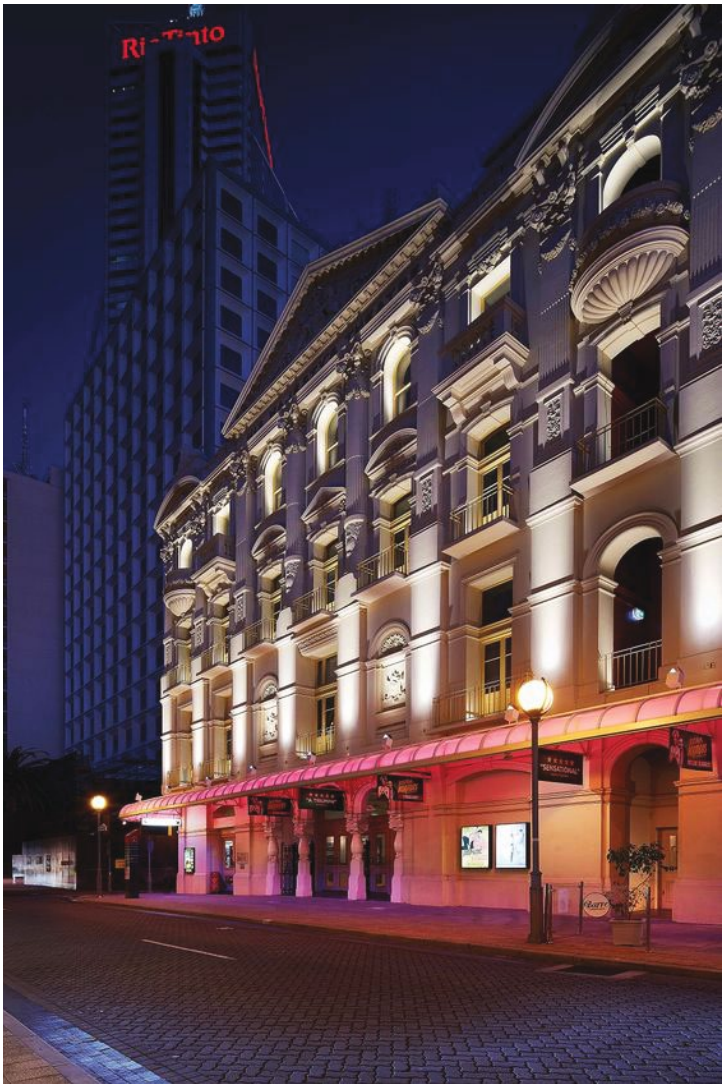
Specification

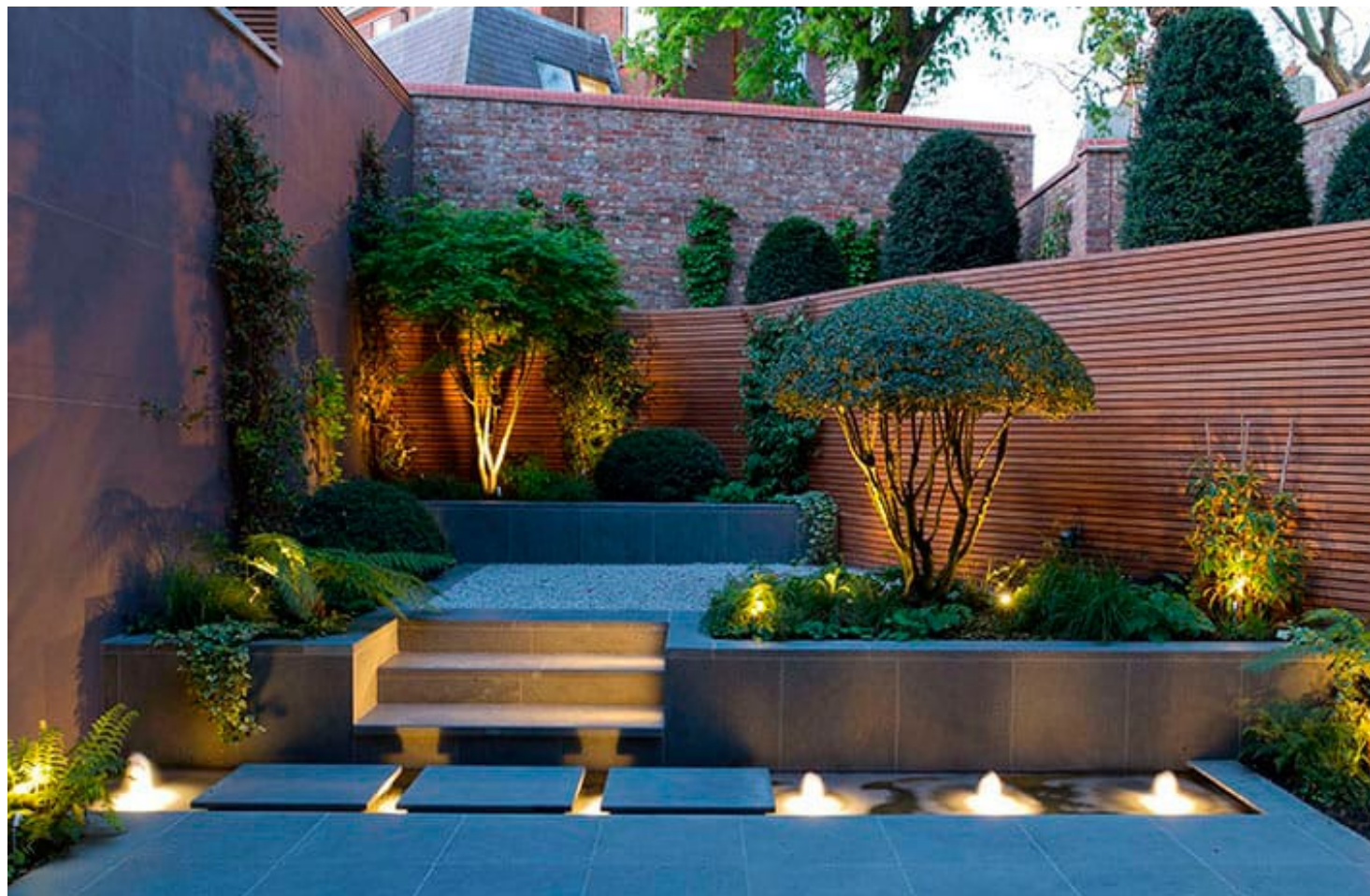
- Dimension: 110mm x 110mm x 103mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 18W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None (DMX512, Dali, 0-10V)
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 66
- Class: I



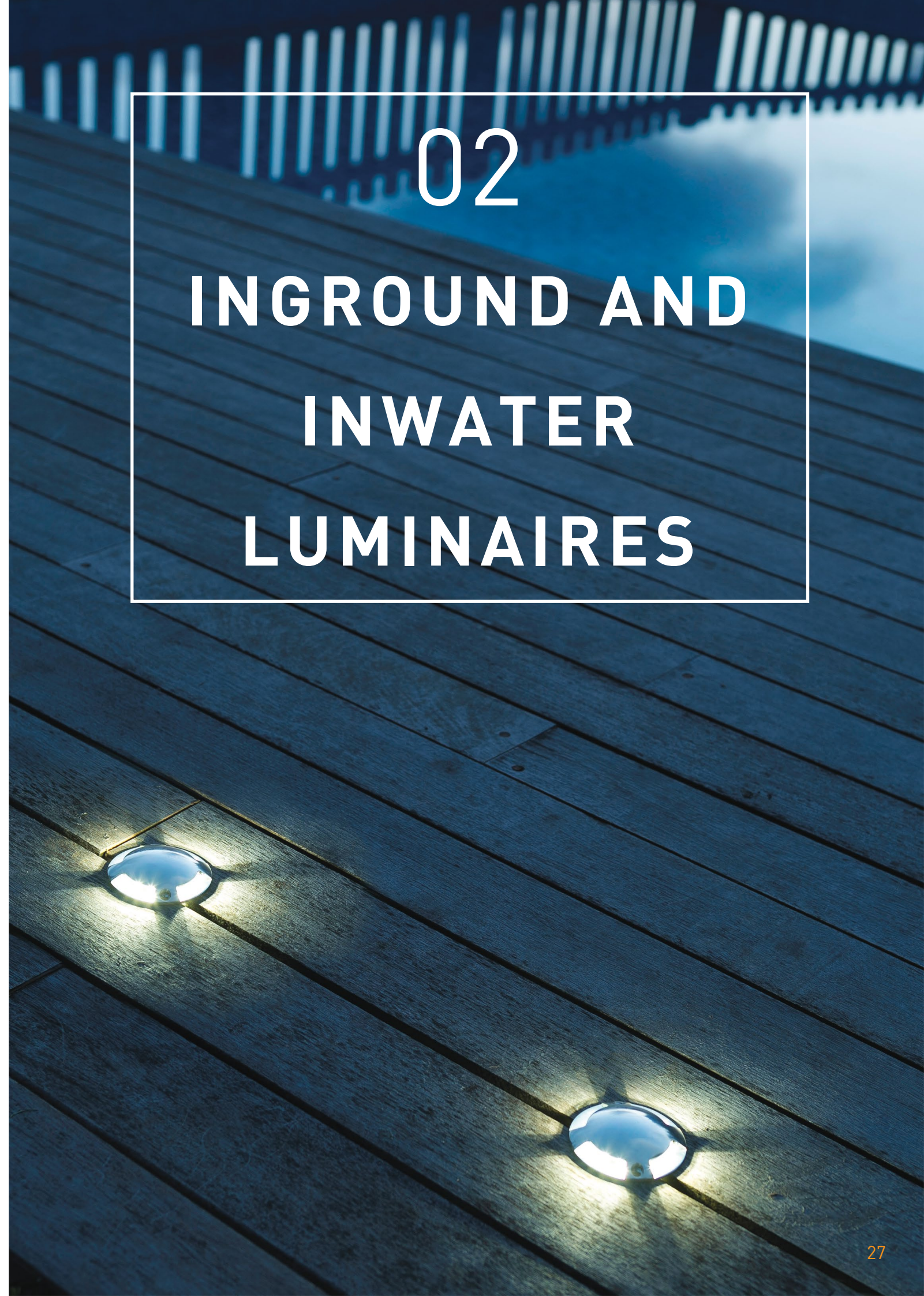
Dimension







02 INGROUND AND INWATER LUMINAIRES





BURY-4



BURY-5



BURY-6



RADIN-005S



RADIN-009S



GYROS-18S



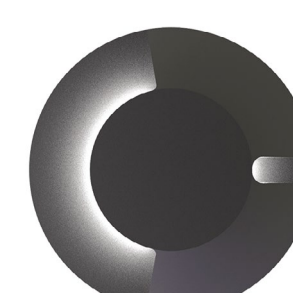
BURY-7



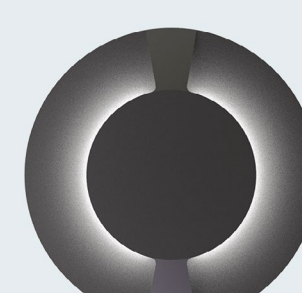
BURY-8



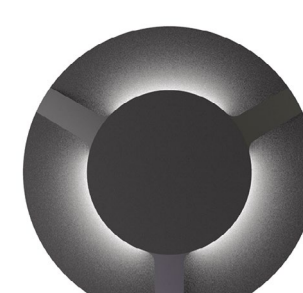
BURY-9



SOCO 1-6S



SOCO 2-6S



SOCO 3-6S



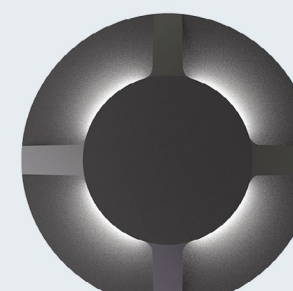
BURY-10



BURY-12



BURY-14



SOCO 4-6S



EGOr-6S



EGOs-6S



BURY-18



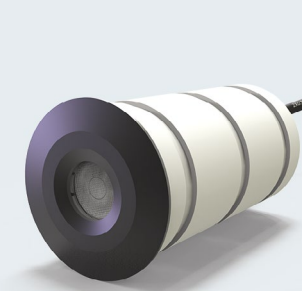
BURY-27



BURY-48



EGO-3S



DOLLI-2S



DOLLI-6S



DOLLI-9S



VITUS-3S



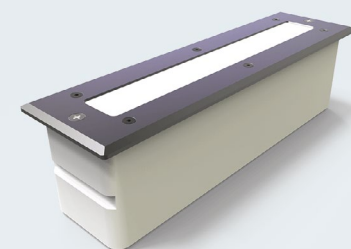
VITUS-4S



RIPPLE-72S



MONICA-12S



MONICA-012S



MONA-8S



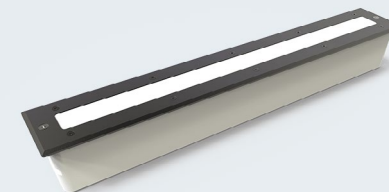
TANDO-12S



RIPPLE-2S



MONICA-24S



MONICA-024S



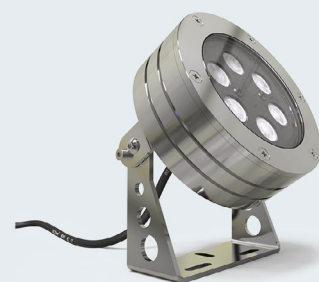
KNOX-12X3



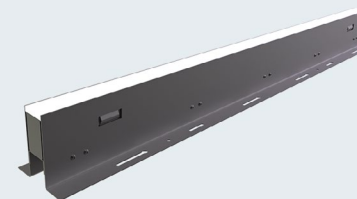
RIPPLE-9S



PULL-6S



ELIA-12S



STIX-14



TROV-36S



RIPPLE-24S



RIPPLE-36S



RIPPLE-54S

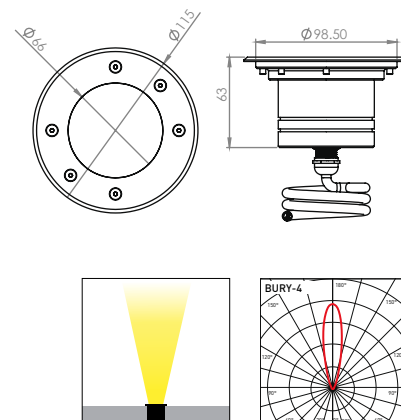
BURY-4



Specification

- Dimension: Ø115mm x H63mm
- Input Voltage: 24VDC
- Power consumption: 4x3W (4x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



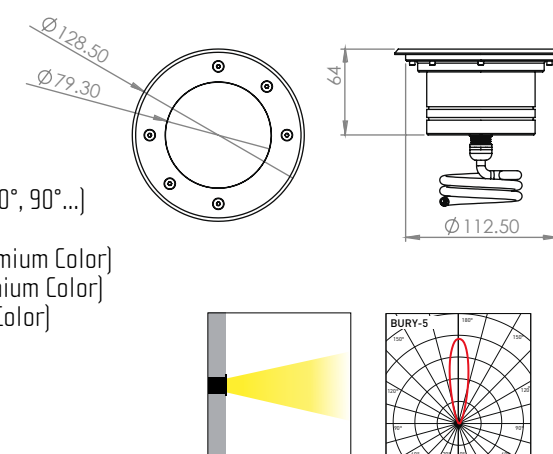
BURY-5



Specification

- Dimension: Ø129mm x H64mm
- Input Voltage: 24VDC
- Power consumption: 5x3W (5x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



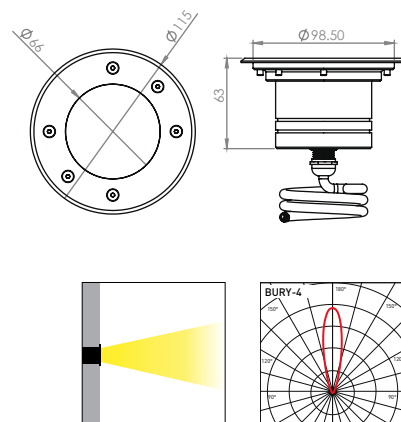
BURY-4



Specification

- Dimension: Ø115mm x H63mm
- Input Voltage: 24VDC
- Power consumption: 4x3W (4x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



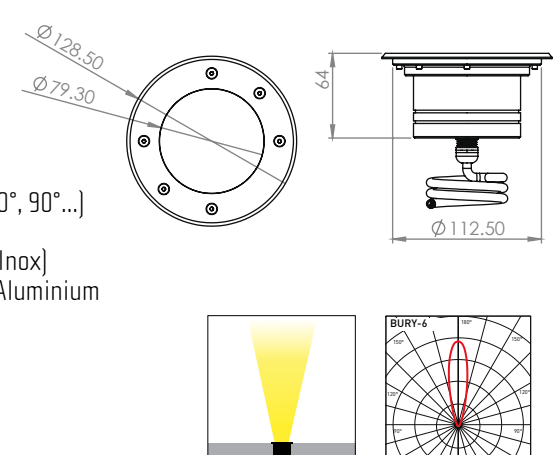
BURY-6



Specification

- Dimension: Ø129mm x H64mm
- Input Voltage: 24VDC
- Power consumption: 6x3W (6x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



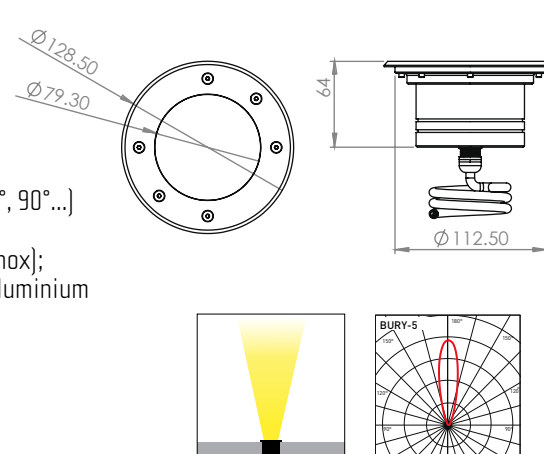
BURY-5



Specification

- Dimension: Ø129mm x H64mm
- Input Voltage: 24VDC
- Power consumption: 5x3W (5x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox);
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



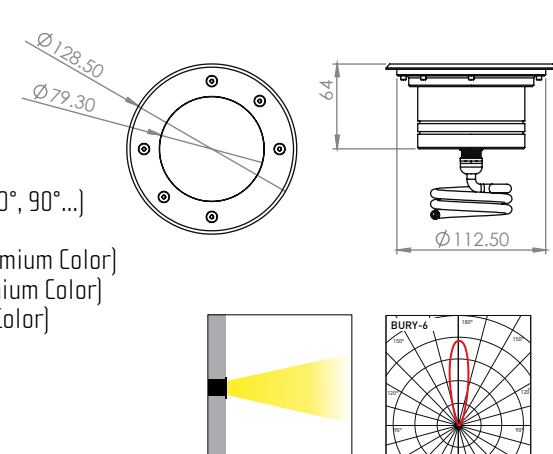
BURY-6



Specification

- Dimension: Ø129mm x H64mm
- Input Voltage: 24VDC
- Power consumption: 6x3W (6x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



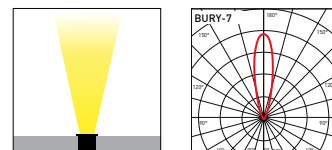
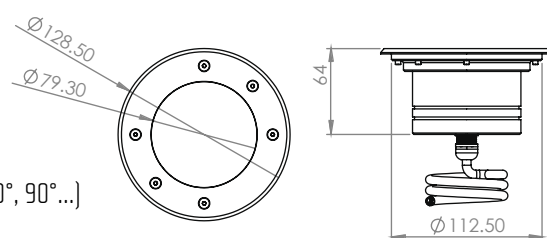
BURY-7



Specification

- Dimension: Ø129mm x H64mm
- Input Voltage: 24VDC
- Power consumption: 7x3W (7x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



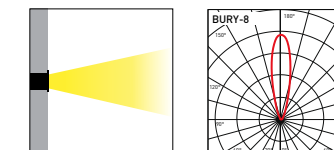
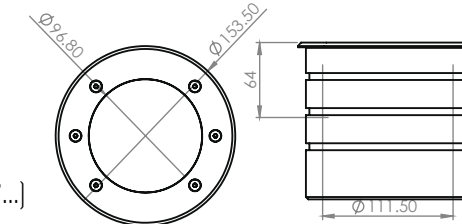
BURY-8



Specification

- Dimension: Ø154mm x H64mm
- Input Voltage: 24VDC
- Power consumption: 8x3W (8x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



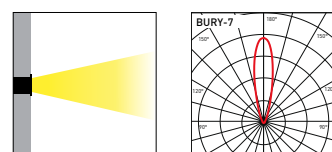
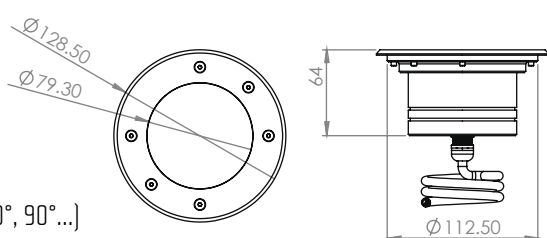
BURY-7



Specification

- Dimension: Ø129mm x H64mm
- Input Voltage: 24VDC
- Power consumption: 7x3W (7x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



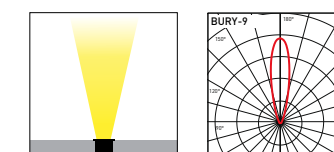
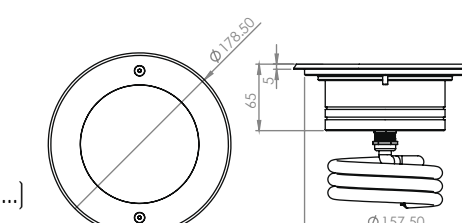
BURY-9



Specification

- Dimension: Ø179mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 9x3W (9x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



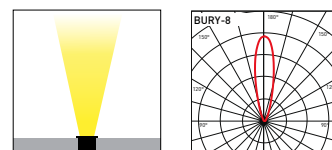
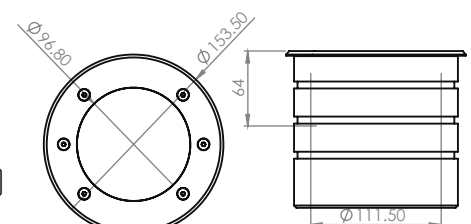
BURY-8



Specification

- Dimension: Ø154mm x H64mm
- Input Voltage: 24VDC
- Power consumption: 8x3W (8x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



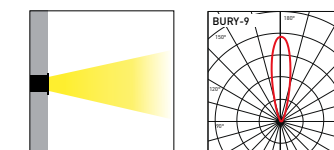
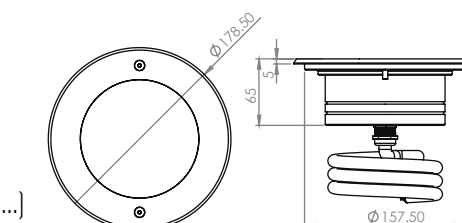
BURY-9



Specification

- Dimension: Ø179mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 9x3W (9x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



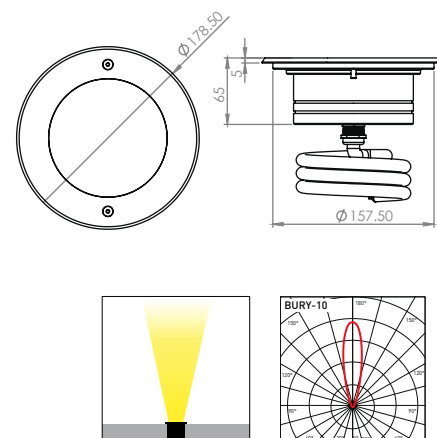
BURY-10



Specification

- Dimension: Ø179mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 10x3W (10x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



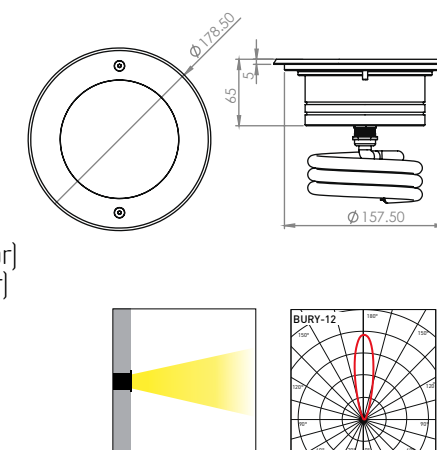
BURY-12



Specification

- Dimension: Ø179mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 12x3W (12x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



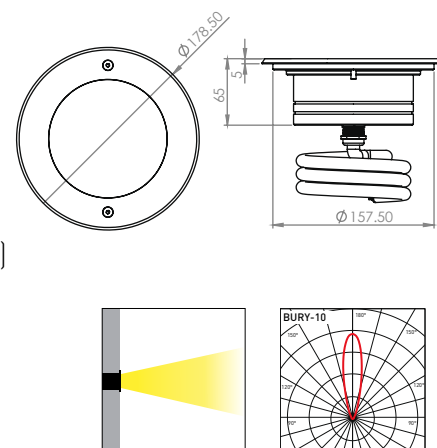
BURY-10



Specification

- Dimension: Ø179mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 10x3W (10x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



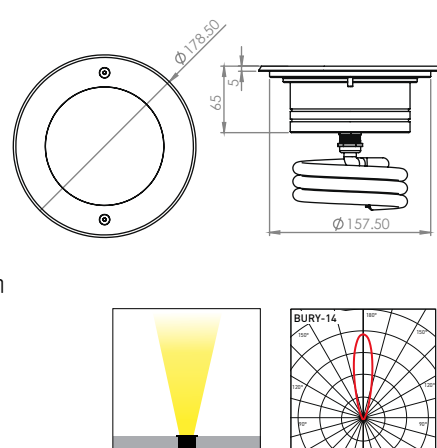
BURY-14



Specification

- Dimension: Ø179mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 14x3W (14x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



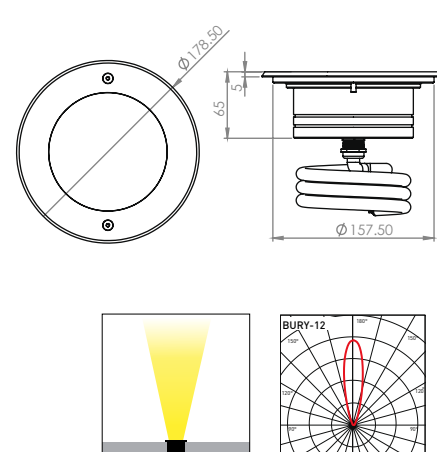
BURY-12



Specification

- Dimension: Ø179mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 12x3W (12x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



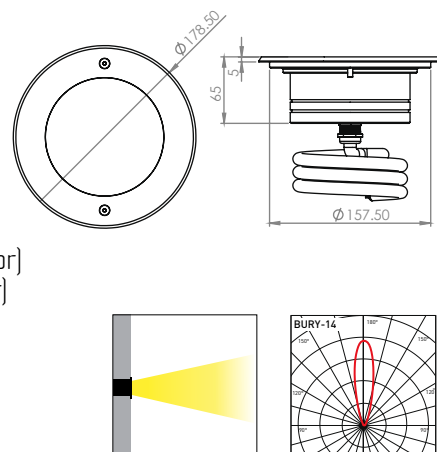
BURY-14



Specification

- Dimension: Ø179mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 14x3W (14x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



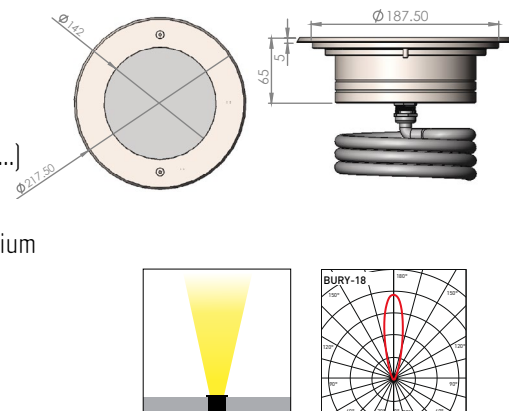
BURY-18



Specification

- Dimension: Ø218mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 18x3W (18x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



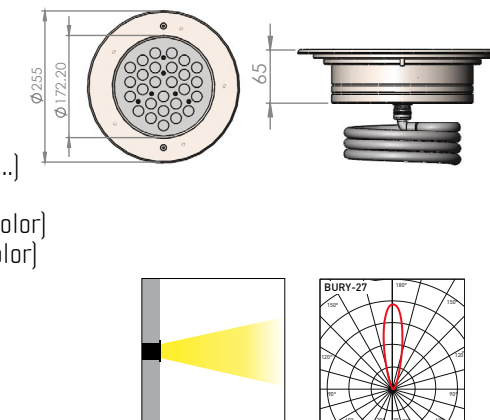
BURY-27



Specification

- Dimension: Ø255mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 27x3W (27x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



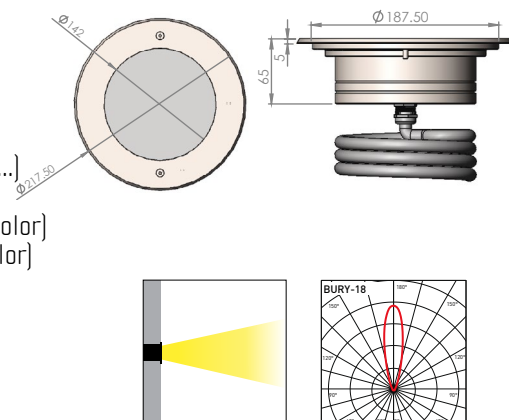
BURY-18



Specification

- Dimension: Ø218mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 18x3W (18x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



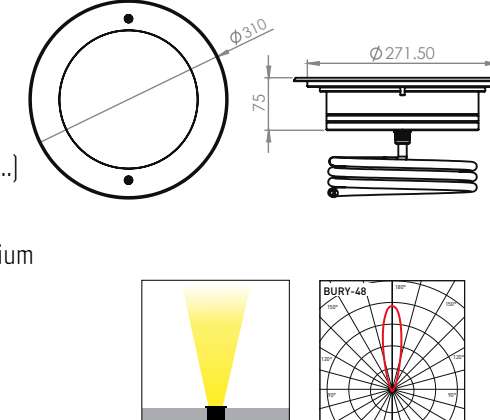
BURY-48



Specification

- Dimension: Ø310mm x H75mm
- Input Voltage: 24VDC
- Power consumption: 48x3W (48x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



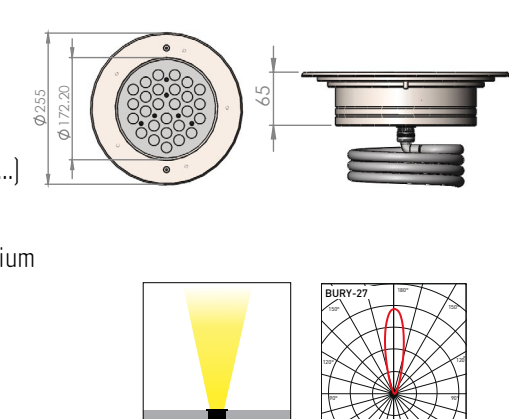
BURY-27



Specification

- Dimension: Ø255mm x H65mm
- Input Voltage: 24VDC
- Power consumption: 27x3W (27x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



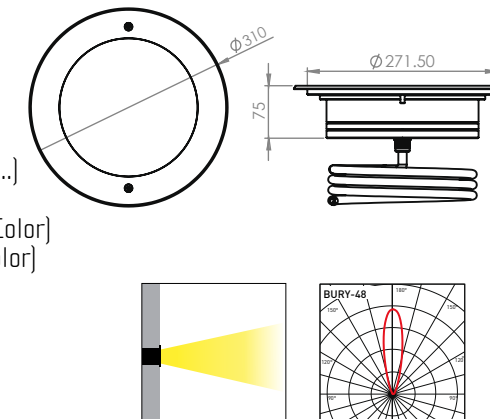
BURY-48



Specification

- Dimension: Ø310mm x H75mm
- Input Voltage: 24VDC
- Power consumption: 48x3W (48x1W)
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension





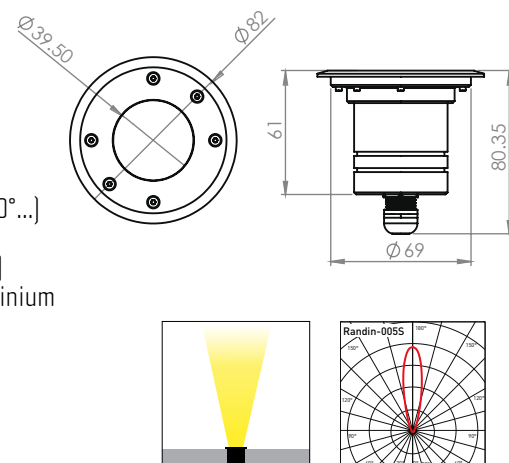
RADIN-005S



Specification

- Dimension: Ø82mm x H61mm
- Input Voltage: 24VDC
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



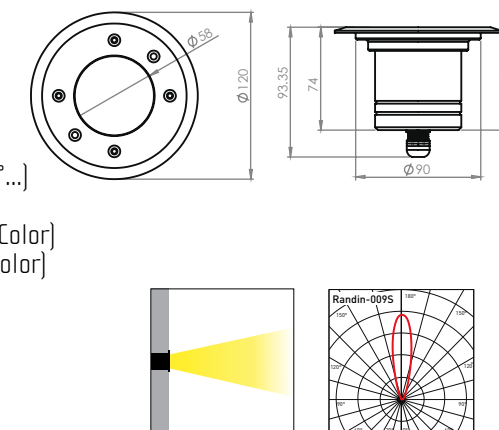
RADIN-009S



Specification

- Dimension: Ø120mm x H74mm
- Input Voltage: 24VDC
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



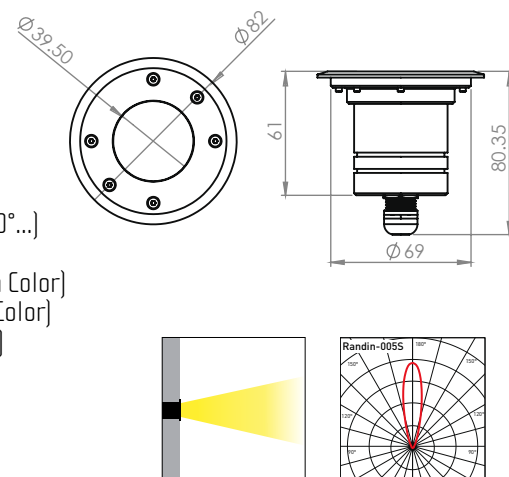
RADIN-005S



Specification

- Dimension: Ø82mm x H61mm
- Input Voltage: 24VDC
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



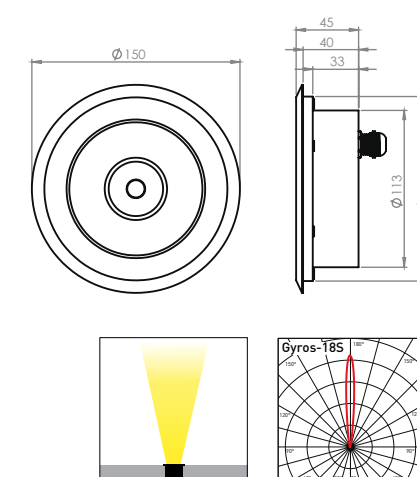
GYROS-18S



Specification

- Dimension: Ø150mm x H45mm
x Cut hole: Ø40mm
- Input Voltage: 12VDC
- Power consumption: 18W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



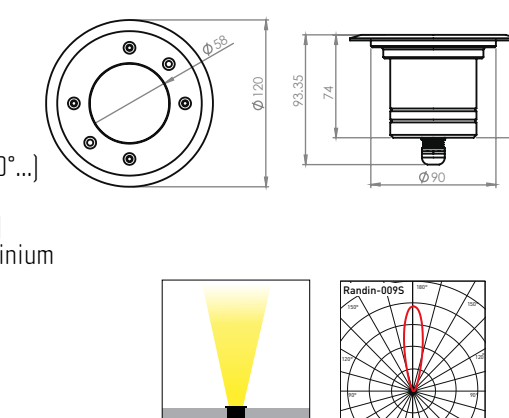
RADIN-009S



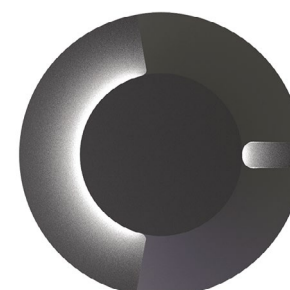
Specification

- Dimension: Ø120mm x H74mm
- Input Voltage: 24VDC
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



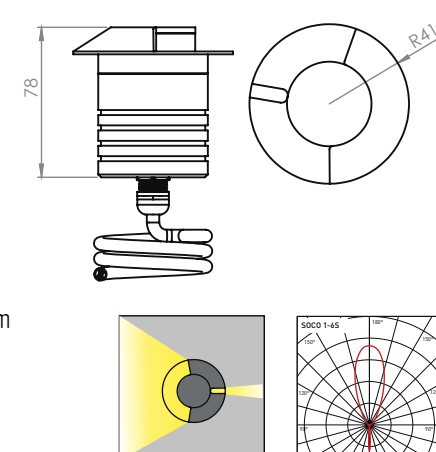
SOCO 1-6S



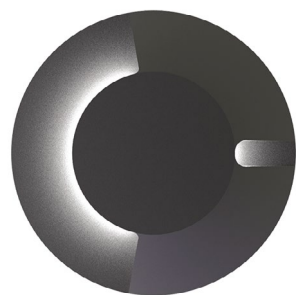
Specification

- Dimension: Ø84mm x H78mm,
Cutout: Ø68mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



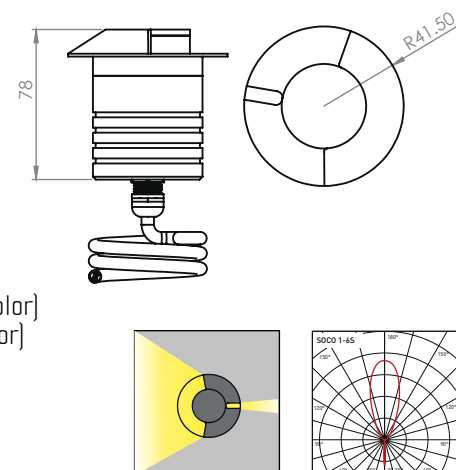
SOCO 1-6S



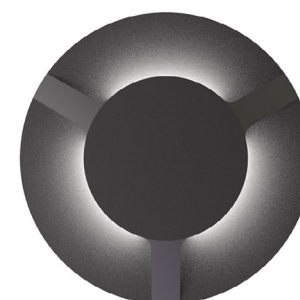
Specification

- Dimension: Ø84mm x H78mm, Cutout: Ø68mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



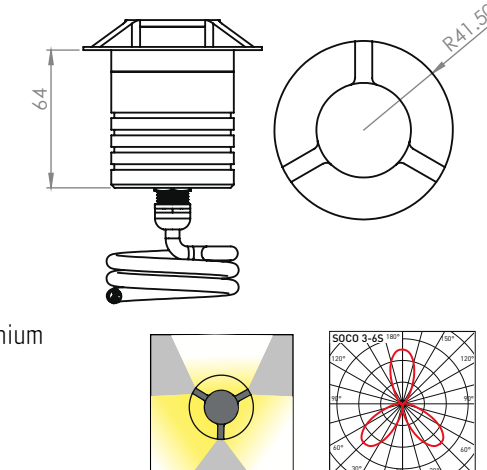
SOCO 3-6S



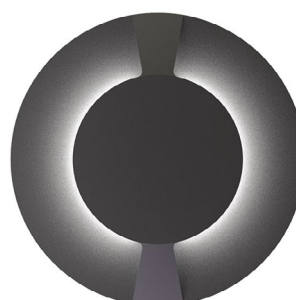
Specification

- Dimension: Ø84mm x H64mm, Cutout: Ø68mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



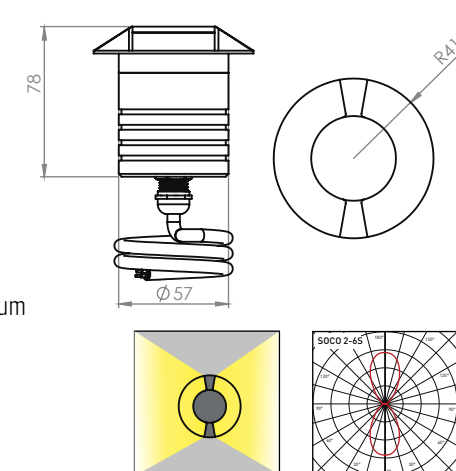
SOCO 2-6S



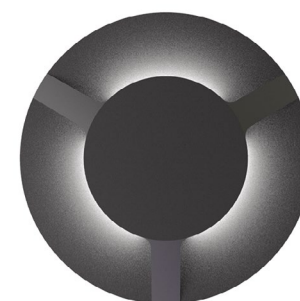
Specification

- Dimension: Ø84mm x H78mm, Cutout: Ø68mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



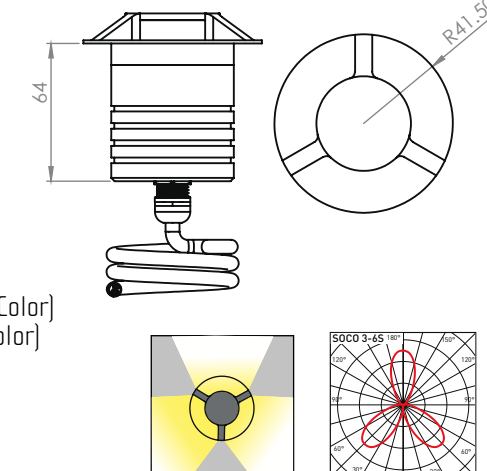
SOCO 3-6S



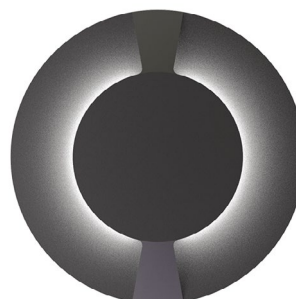
Specification

- Dimension: Ø84mm x H64mm, Cutout: Ø68mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



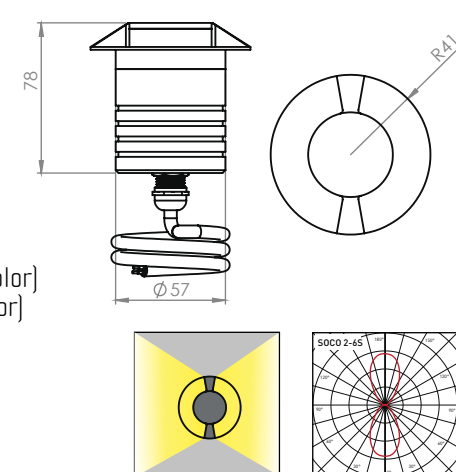
SOCO 2-6S



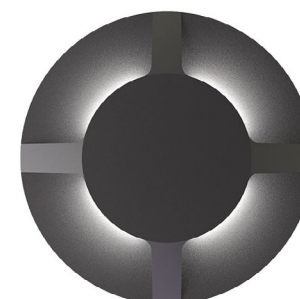
Specification

- Dimension: Ø84mm x H78mm, Cutout: Ø68mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



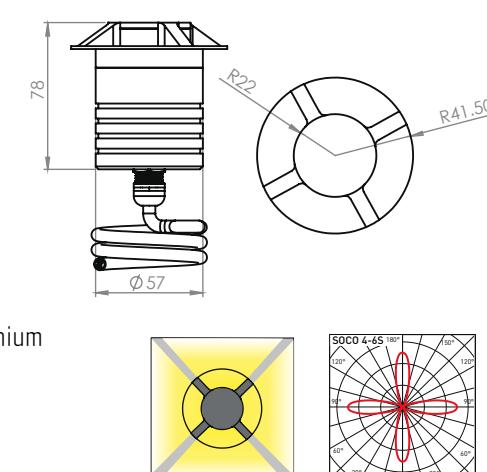
SOCO 4-6S



Specification

- Dimension: Ø84mm x H78mm, Cutout: Ø68mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



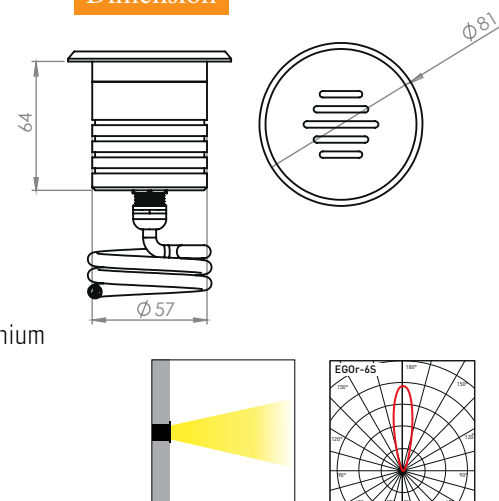
EGOr-6S



Specification

- Dimension: Ø81 x H64mm x Cutout Ø58mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



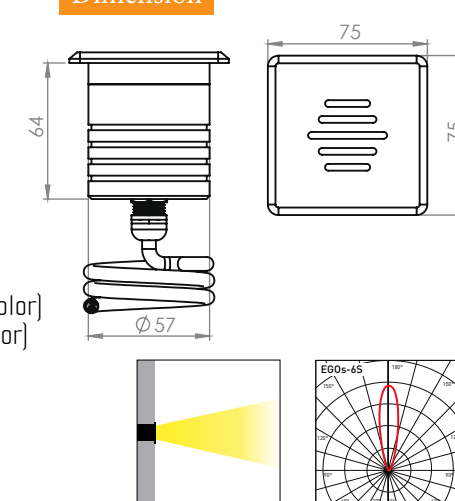
EGOs-6S



Specification

- Dimension: 75x75x H64mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



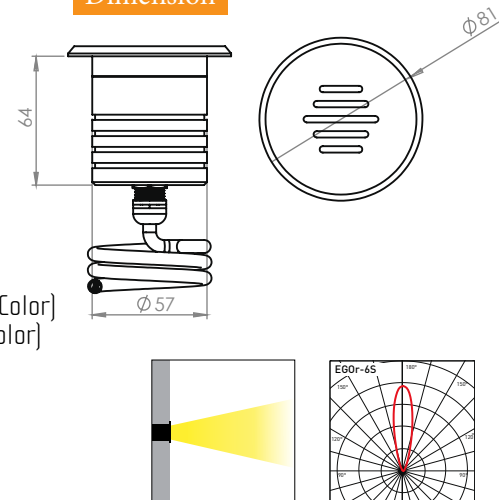
EGOr-6S



Specification

- Dimension: Ø81 x H64mm x Cutout Ø58mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension



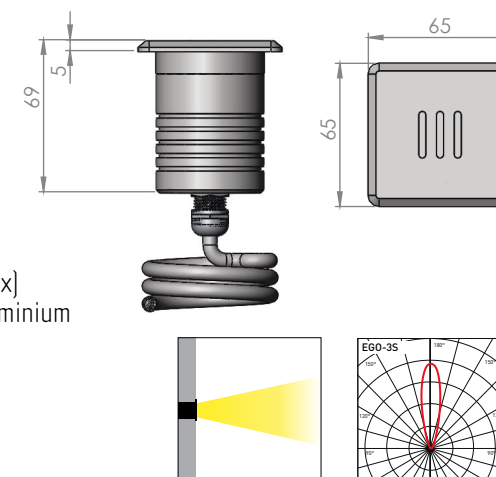
EGO-3S



Specification

- Dimension: 65mm x65mm x H69mm
- Input Voltage: 24VDC
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



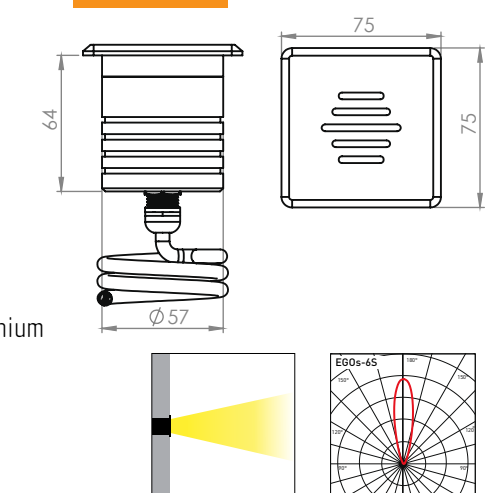
EGOs-6S



Specification

- Dimension: 75x75x H64mm
- Input Voltage: 24VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP67 (Body: Aluminum ; Face: Inox)
- Finishing (Color housing): IP67 (Body: Aluminium Anode ; Face: Inox)
- IP: IP67 (Body: Black ; Face: Inox)
- Class: III

Dimension



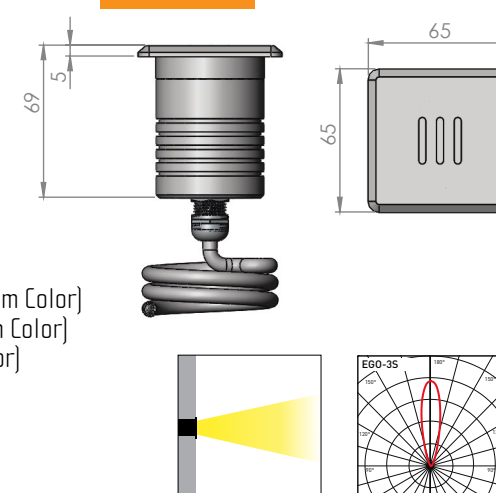
EGO-3S



Specification

- Dimension: 65mm x65mm x H69mm
- Input Voltage: 24VDC
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: IP68 (Inox316, Finish is Chromium Color)
- Finishing (Color housing): IP68 (Chromium Color)
- IP: IP68 (Inox316, Finish is Chromium Color)
- Class: III

Dimension





DOLLI-2S

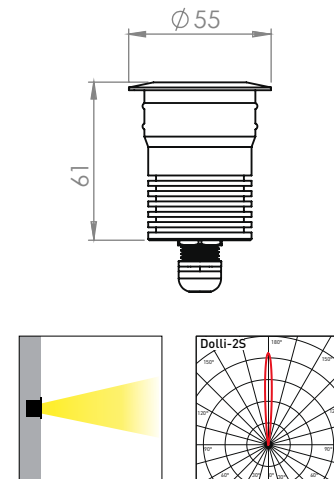


Specification

- Dimension: Ø55mm x H61mm
- Input Voltage: 12VDC
- Power consumption: 2W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 20° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III



Dimension



VITUS-3S

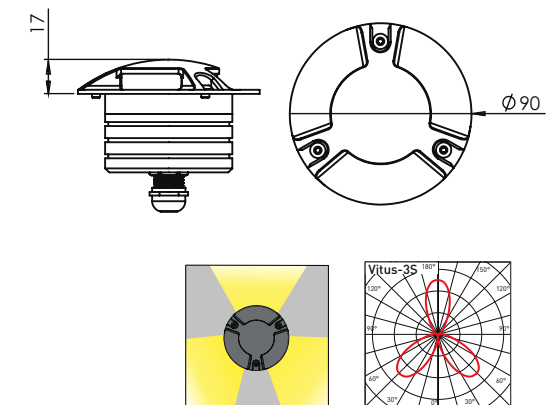


Specification

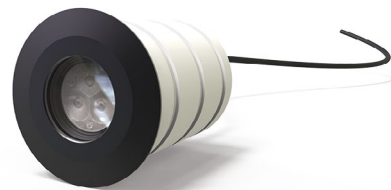
- Dimension: Ø90mm x H100mm x Cutout Ø80mm
- Input Voltage: 24VDC
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Special
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White Grey
- IP: 67
- Class: III



Dimension



DOLLI-6S

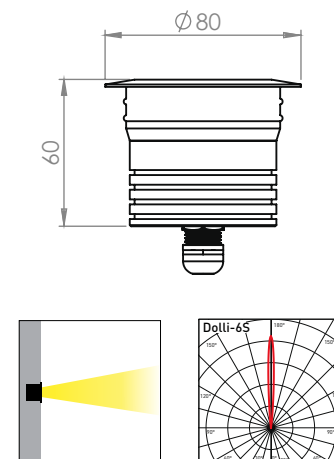


Specification

- Dimension: Ø80mm x 60mm
- Input Voltage: 12VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox316
- Finishing (Color housing): Inox
- IP: 68
- Class: III



Dimension



VITUS-4S

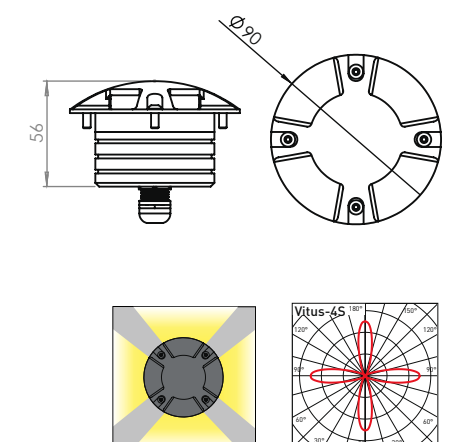


Specification

- Dimension: Ø90mm x H56mm x Cutout Ø80mm
- Input Voltage: 24VDC
- Power consumption: 4W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Special
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 67
- Class: III



Dimension



DOLLI-9S

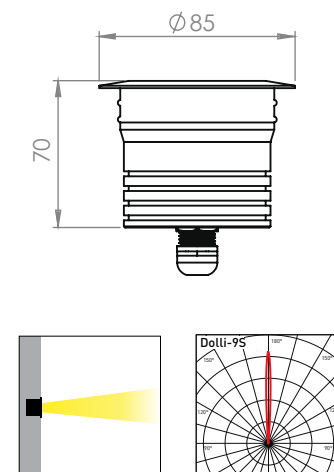


Specification

- Dimension: Ø85mm x 70mm
- Input Voltage: 12VDC
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 10° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68; IK 10
- Class: III



Dimension



MONA-8S

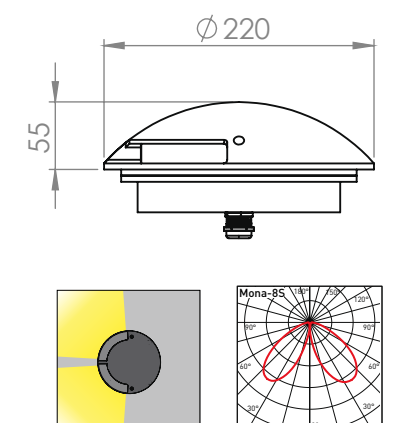


Specification

- Dimension: Ø220 x 155mm; Cutout: Ø203 mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 8W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 67
- Class: I



Dimension



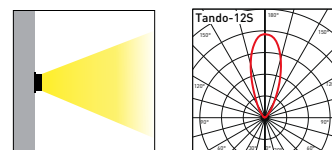
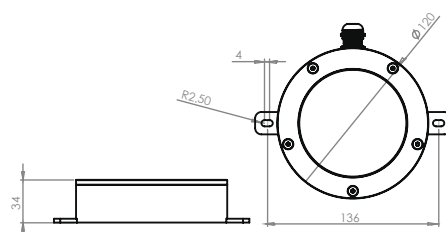
TANDO-12S



Specification

- Dimension: Ø120mm x H34mm
- Input Voltage: 12VDC
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 60° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



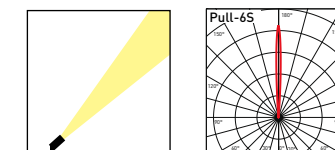
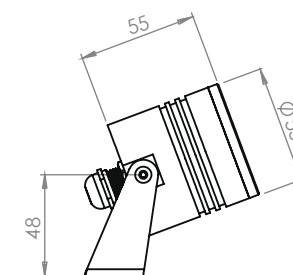
PULL-6S



Specification

- Dimension: Ø55mm x L55mm
- Input Voltage: 12VDC
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 10° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): White
- IP: 68
- Class: III

Dimension



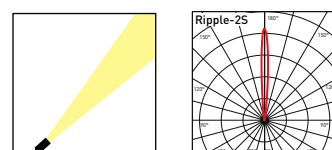
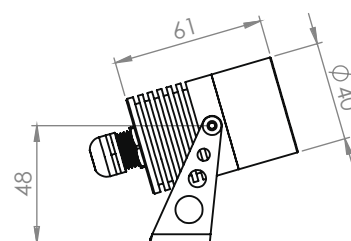
RIPPLE-2S



Specification

- Dimension: Ø40mm x 61mm
- Input Voltage: 12VDC
- Power consumption: 2W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316L
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



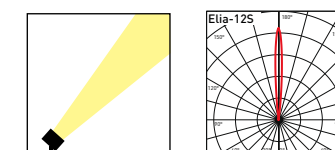
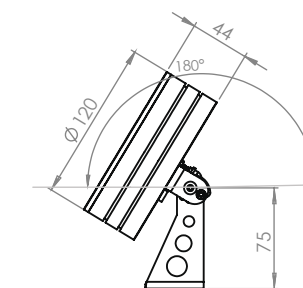
ELIA-12S



Specification

- Dimension: Ø120mm x 44mm
- Input Voltage: 12VDC
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



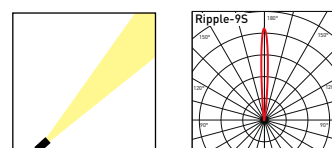
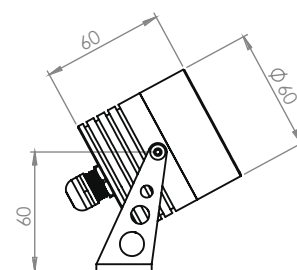
RIPPLE-9S



Specification

- Dimension: Ø60mm x 60mm
- Input Voltage: 12VDC
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316L
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



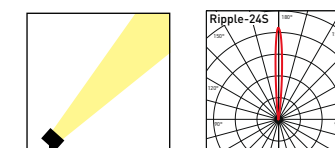
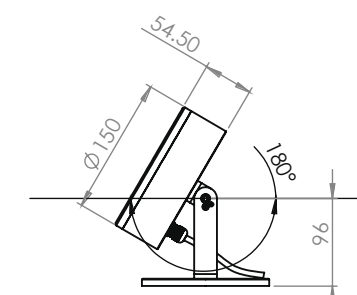
RIPPLE-24S



Specification

- Dimension: Ø150mm x H96mm
- Input Voltage: 12VDC
- Power consumption: 24W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Beam Angle: 15° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



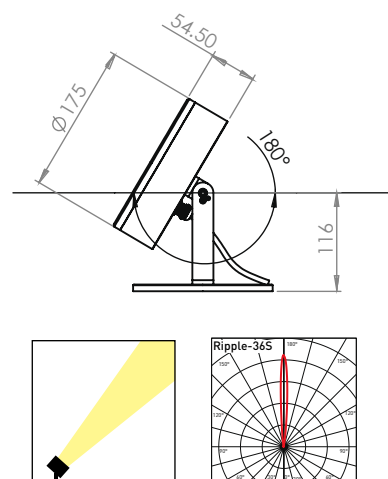
RIPPLE-36S



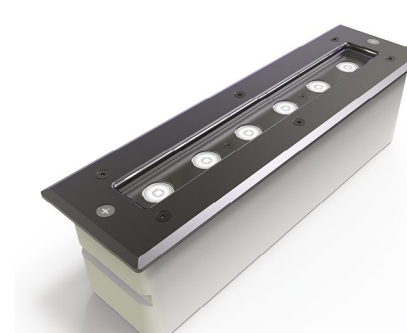
Specification

- Dimension: Ø175mm x H116mm
- Input Voltage: 12VDC
- Power consumption: 36W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



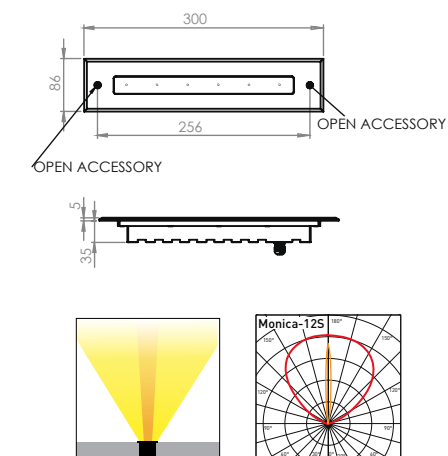
MONICA-12S



Specification

- Dimension: L300mm x W86mm x H40 mm
- Input Voltage: 12VDC
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 10° x 90° (orther: 36°, 45°, 60°, 90°, 10°x40°, 10°x90°, 20°x40°, ...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



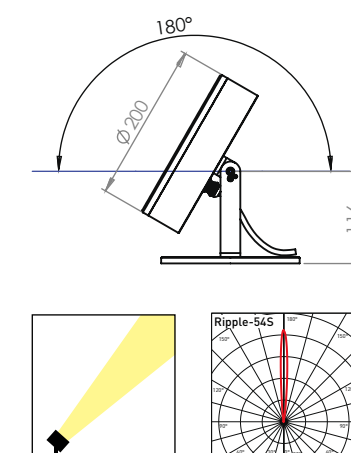
RIPPLE-54S



Specification

- Dimension: Ø200mm x H116mm
- Input Voltage: 12VDC
- Power consumption: 54W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



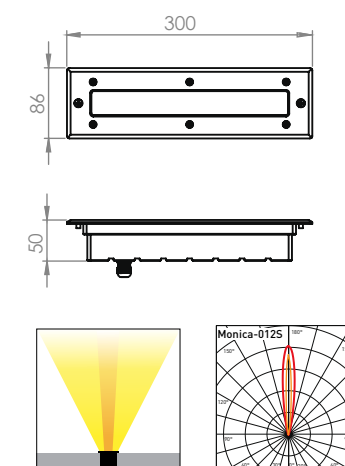
MONICA-012S



Specification

- Dimension: L300mm x W86mm x H50 mm
- Input Voltage: 12VDC
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



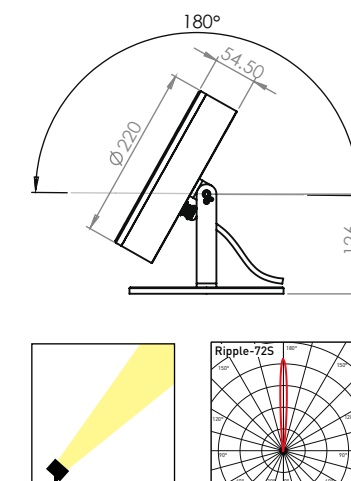
RIPPLE-72S



Specification

- Dimension: Ø220mm x H126mm
- Input Voltage: 12VDC
- Power consumption: 72W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox 316L
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



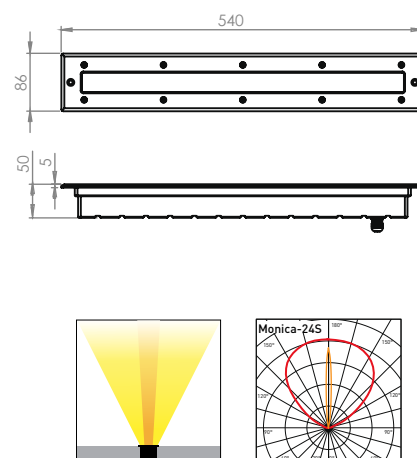
MONICA-24S



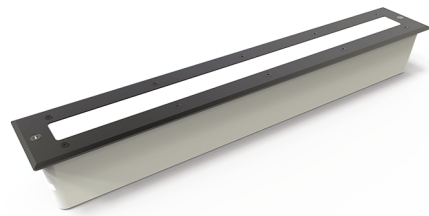
Specification

- Dimension: L540mm x W86mm x H50 mm
- Input Voltage: 12VDC
- Power consumption: 24W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 10° x 90° (orther: 36°, 45°, 60°, 90°, 10°x40°, 10°x90°, 20°x40°, ...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III

Dimension



MONICA-024S

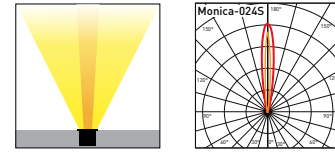
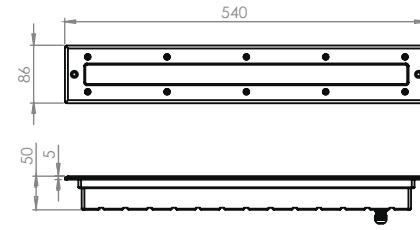


Specification

- Dimension: L540mm x W86mm x H50 mm
- Input Voltage: 12VDC
- Power consumption: 24W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III



Dimension



TROV-36S

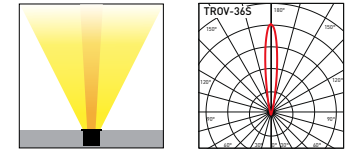
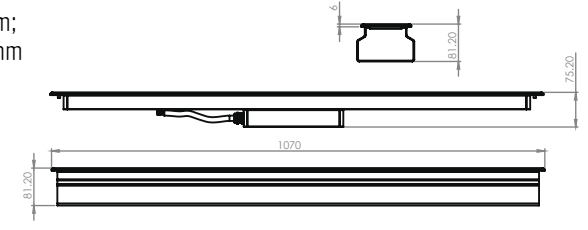


Specification

- Dimension: 1000mm x 109mm x 78mm;
Cutout: L990xW124xH76mm
- Input Voltage: 110-277VAC (43-60Hz)
- Power consumption: 36W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Inox 304, Body: Aluminium
- Finishing (Color housing): Inox
- IP: 67
- Class: I



Dimension



KNOX-12X3

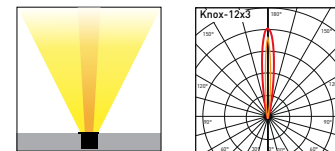
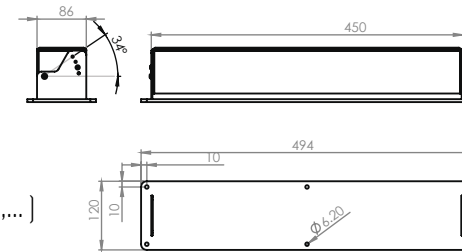


Specification

- Dimension: 80 x 86 x 450mm
- Input Voltage: 24VDC
- Power consumption: 12 x 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 8° (14°, 24°, 36°, 60°, 10°x30°, 20°x40°, ...)
- Function Dimmer: None
- Material: Inox 316
- Finishing (Color housing): Inox
- IP: 68
- Class: III



Dimension



STIX-14

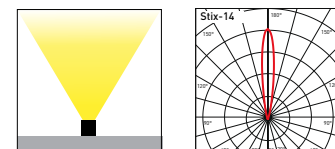
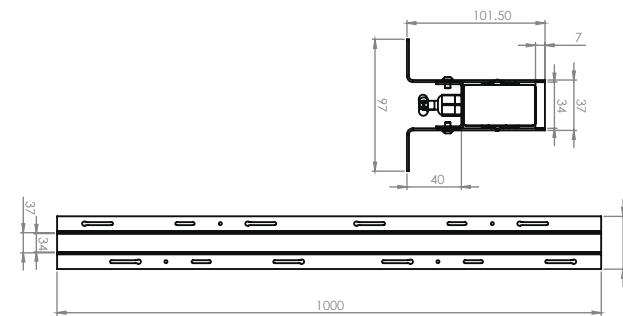


Specification

- Dimension: 37x101x1000mm
- Input Voltage: 24VDC
- Power consumption: 14W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Stainless Steel 304
- Finishing (Color housing): Inox
- IP: 68
- Class: III



Dimension



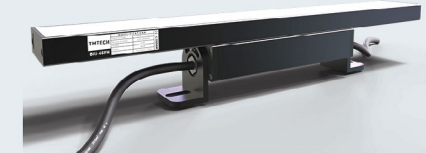




ERA-18F



ERA-20S



BILI-45F



MAGGI-36S

LINEAR LIGHT

03
LINEAR LIGHT

ERA-18F

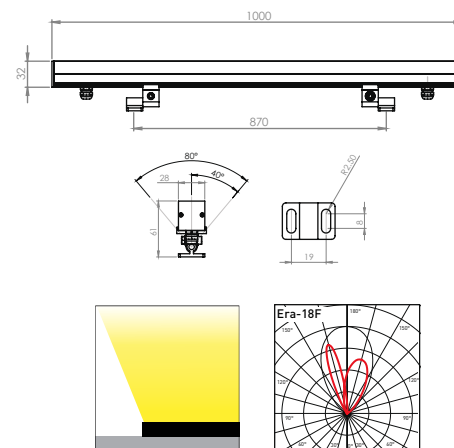


Specification

- Dimension: L1000mm x W28mm x H32 mm
- Input Voltage: Power Core
- Power consumption: 18W
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGB
- Angle: 30° x 60° (orther : 36°, 45°, 60°, 90°, 10°x40°, 10°x90°, 20°x40°, ...)
- Function Dimmer: DMX512
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: III



Dimension



MAGGI-36S

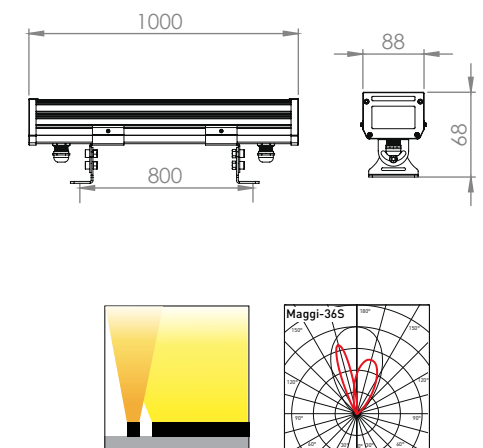


Specification

- Dimension: L1000mm x W88mm x H68mm
- Input Voltage: 24VDC
- Power consumption: 36W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 30° x 60° (orther : 36°, 45°, 60°, 90°, 10°x40°, 10°x90°, 20°x40°, ...)
- Function Dimmer: None
- Material: Anodized Aluminium, Glass
- Finishing (Color housing): Black
- IP: 65
- Class: III



Dimension



ERA-20S

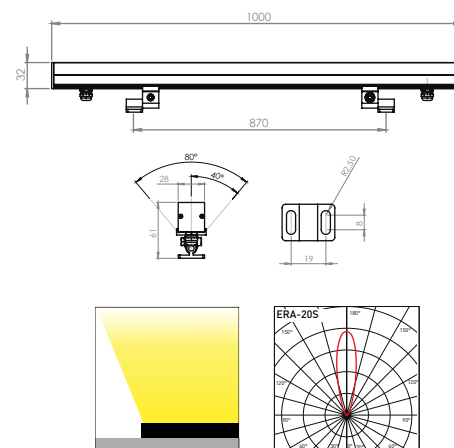


Specification

- Dimension: L1000mm x W28mm x H32 mm
- Input Voltage: 24VDC
- Power consumption: 20W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 60° (orther : 36°, 45°, 60°, 90°, 10°x40°, 10°x90°, 20°x40°, ...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: III



Dimension



BILI-45F

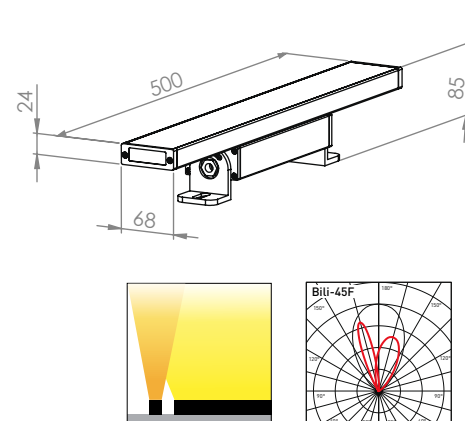


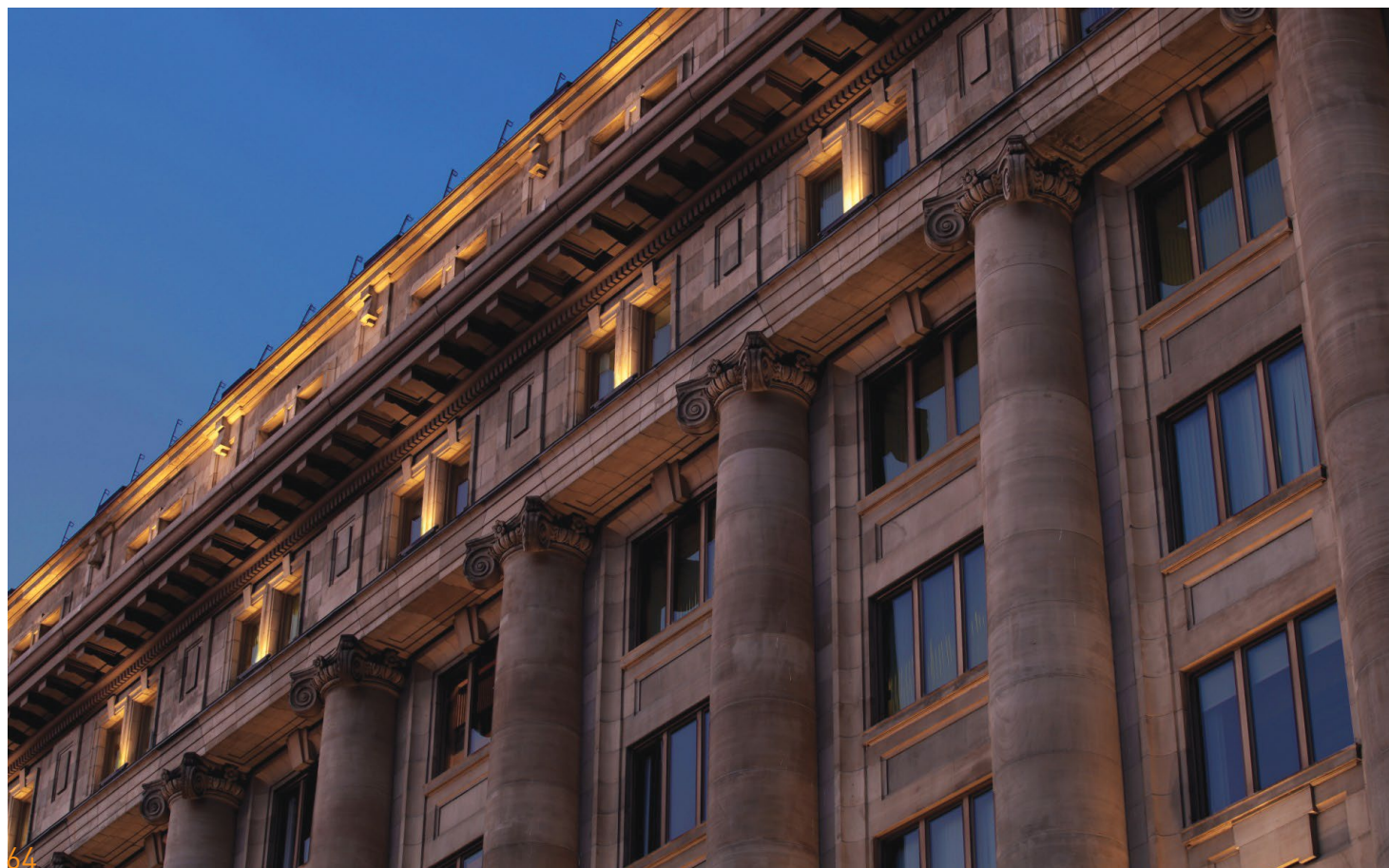
Specification

- Dimension: L500mm x W68mm x H85mm
- Input Voltage: Power Core
- Power consumption: 45W
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGB
- Angle: 30° x 60° (orther : 36°, 45°, 60°, 90°, 10°x40°, 10°x90°, 20°x40°, ...)
- Function Dimmer: DMX512
- Material: Aluminium
- Finishing (Color housing): White Grey
- IP: 66
- Class: III

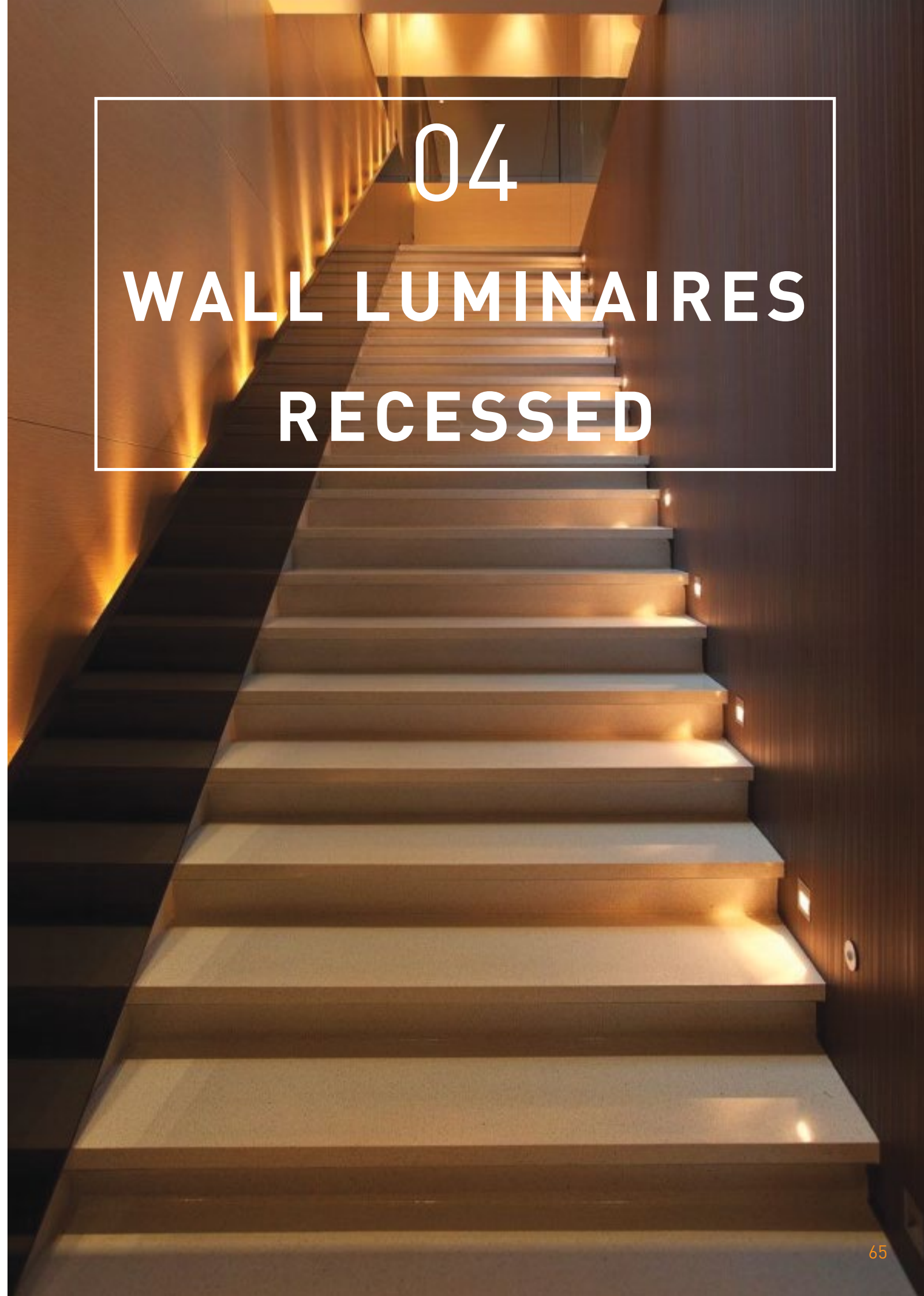


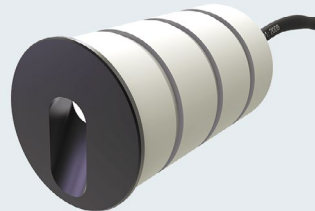
Dimension



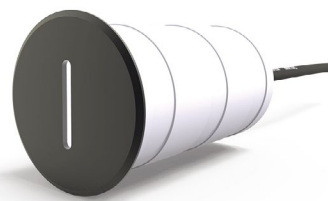


04
WALL LUMINAIRES
RECESSED

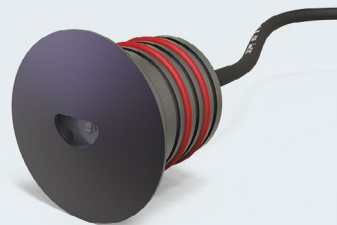




C-FANIO-1S

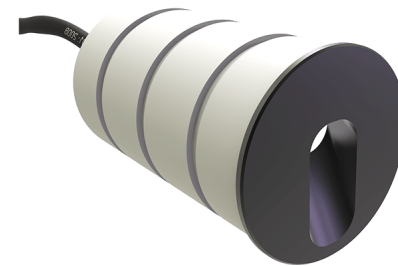


C-SIMIN-2S



CDOOR-3S

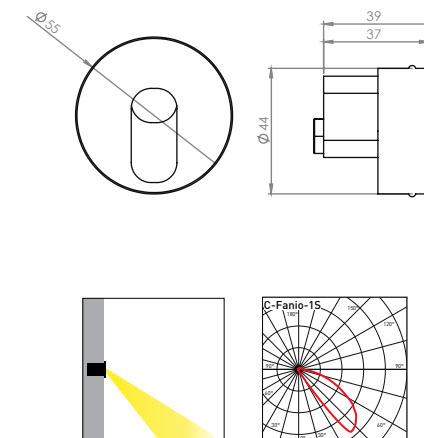
C-FANIO-1S



Specification

- Dimension: Ø55 x H39mm
- Input Voltage: 12/24VDC
- Power consumption: 1W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 65
- Class: III

Dimension



S-SIMIN-2S

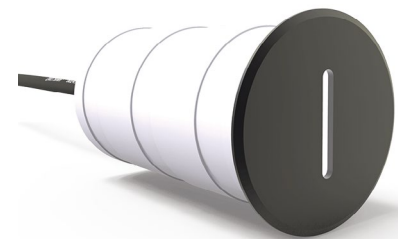


SDOOR-3S



S-FANIO-1S

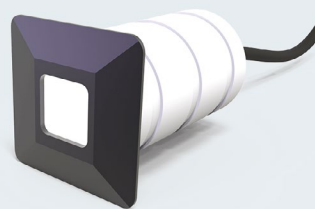
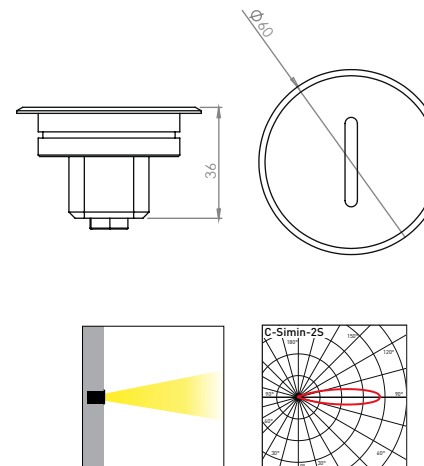
C-SIMIN-2S



Specification

- Dimension: Ø60mm x H36mm
- Input Voltage: 220VAC (50-60Hz) - Built Ex
- Power consumption: 2W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: II

Dimension



CASA-003S

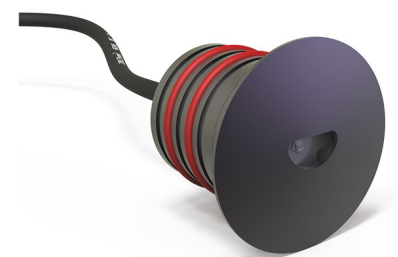


LOFT-3S



STEPLIGHT-3S

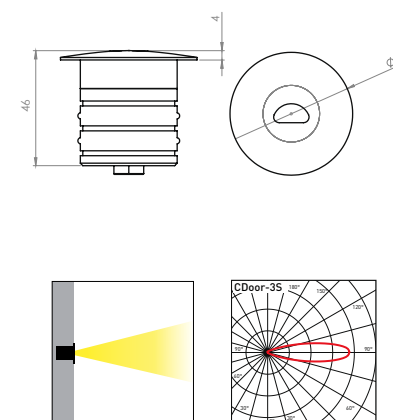
CDOOR-3S



Specification

- Dimension: Ø55x46 mm; Cutout Ø45mm
- Input Voltage: 12/24VDC
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Special Light
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 65
- Class: III

Dimension



CANALI-4S



CANALI-9S

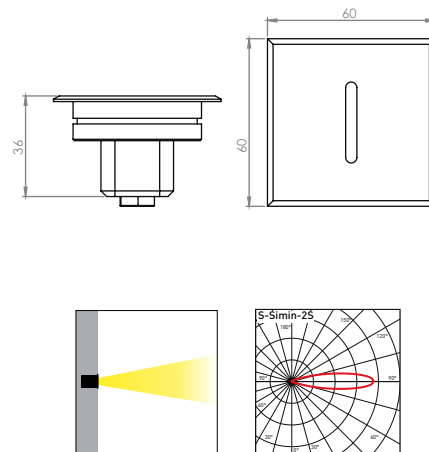
S-SIMIN-2S



Specification

- Dimension: 60mm x 60mm x 36mm
- Input Voltage: 220VAC (50-60Hz) - Built Ex
- Power consumption: 2W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Special Light
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: II

Dimension



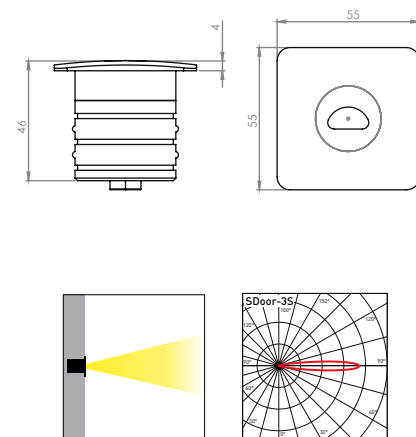
SDOOR-3S



Specification

- Dimension: 55x55x46 mm; Cutout Ø45mm
- Input Voltage: 12/24VDC
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Special Light
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 65
- Class: III

Dimension



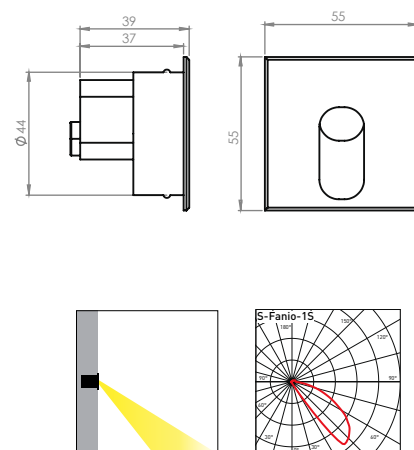
S-FANIO-1S



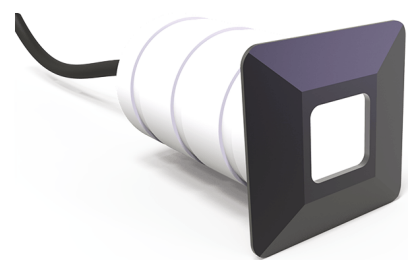
Specification

- Dimension: 55 x 55 x H39mm
- Input Voltage: 24VDC
- Power consumption: 1W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Special Light
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 54
- Class: III

Dimension



CASA-003S

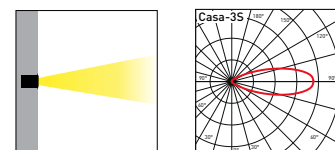
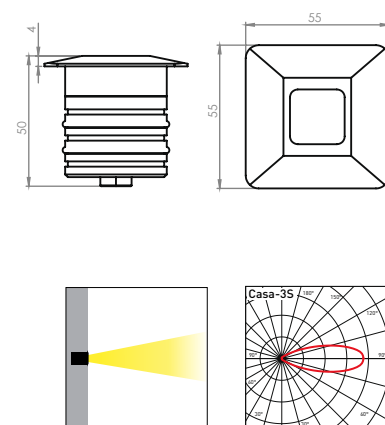


Specification

- Dimension: 55mm x 55mm x H50mm
- Input Voltage: 220VAC (50-60Hz)-External Driver
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: II



Dimension



CANALI-4S

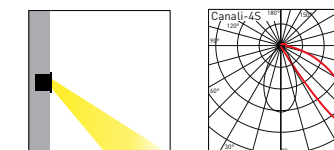
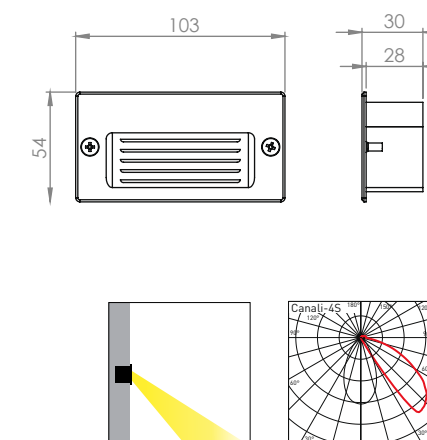


Specification

- Dimension: L103mm x W30mm x H54mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 4W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Anodised Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: I



Dimension



LOFT-3S

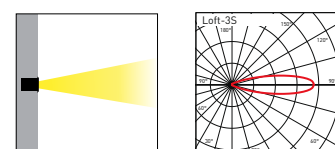
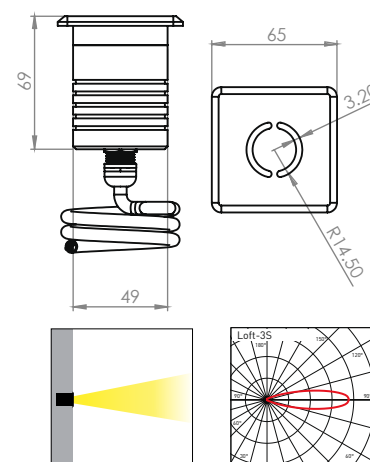


Specification

- Dimension: 65mm x H69mm
- Input Voltage: 220VAC (50-60Hz-External Driver)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: II



Dimension



CANALI-9S

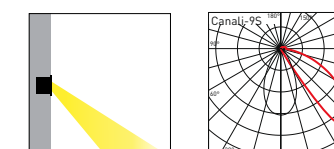
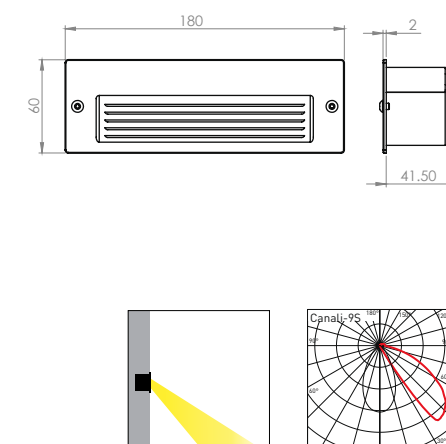


Specification

- Dimension: L180mm x W43mm x H60mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: I



Dimension



STEPLIGHT-3S

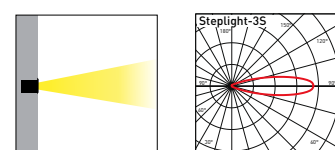
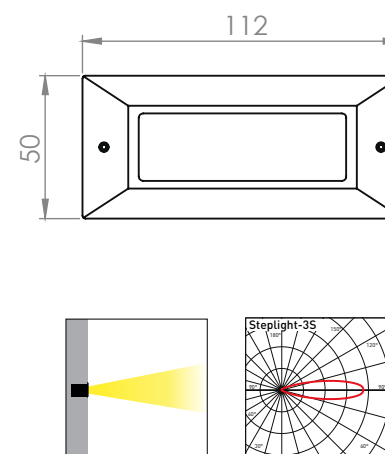


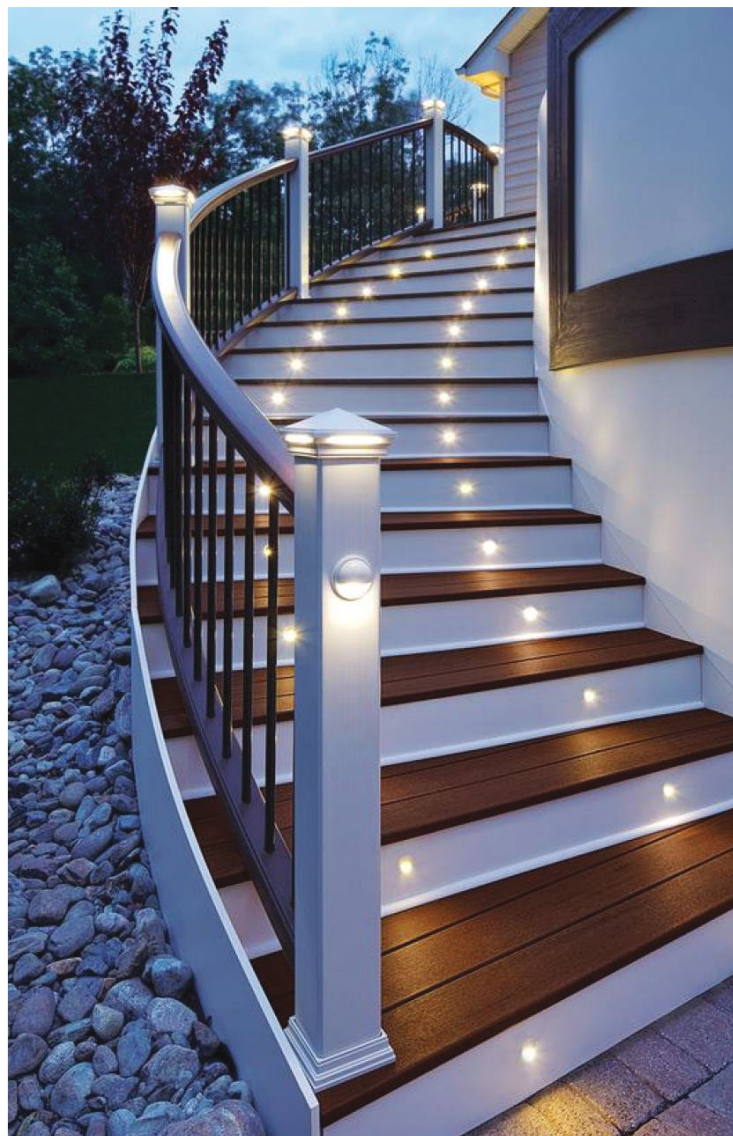
Specification

- Dimension: 50mm x L112mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I

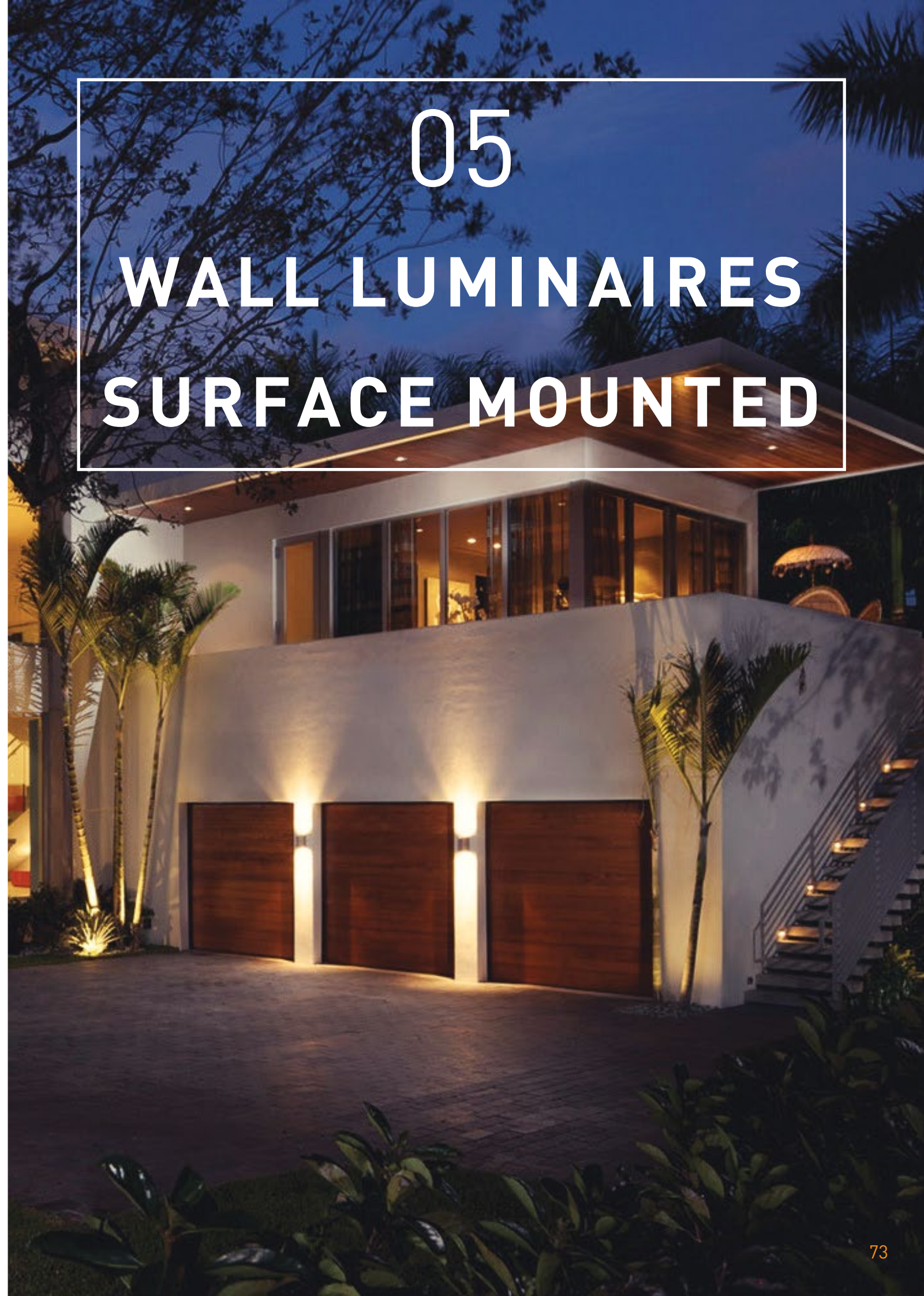


Dimension





05 WALL LUMINAIRES SURFACE MOUNTED

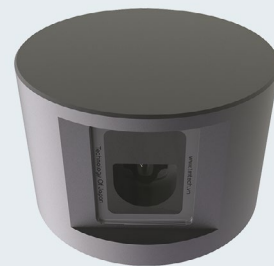




CADAN 1-5S



CADAN 2C-2X3S



CADAN 2I-2X2S

CADAN 1-5S

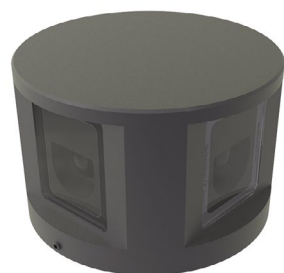
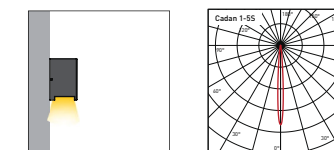
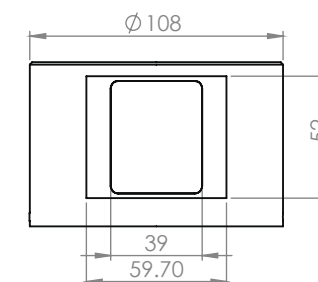


Specification

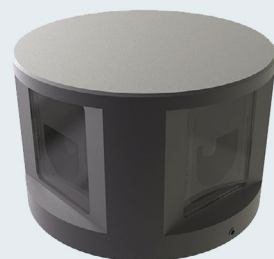
- Dimension: Ø108mm x H70mm
- Input Voltage: 24VDC
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 6° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: III



Dimension



CADAN 3-3X3S



CADAN 4-4X3S



CADAN 5-5X3S

CADAN 2C-2X3S

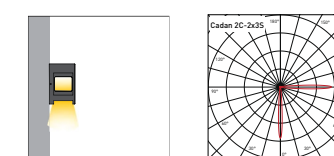
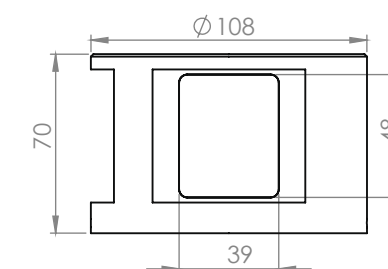


Specification

- Dimension: Ø108mm x H70mm
- Input Voltage: 24VDC
- Power consumption: 2x3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 6° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: III



Dimension



CADAN 2I-2X2S

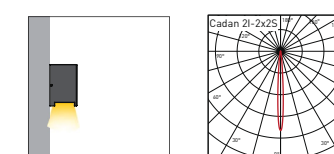
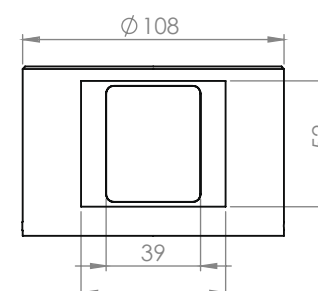


Specification

- Dimension: Ø108mm x H70mm
- Input Voltage: 24VDC
- Power consumption: 2x2W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 6° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: III



Dimension



CIR-NEXI-2X8S



MONTE-2X7S

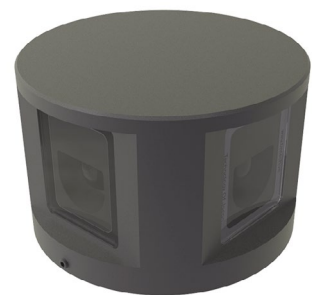


CIRGAR-7S



SEMI-5S

CADAN 3-3X3S

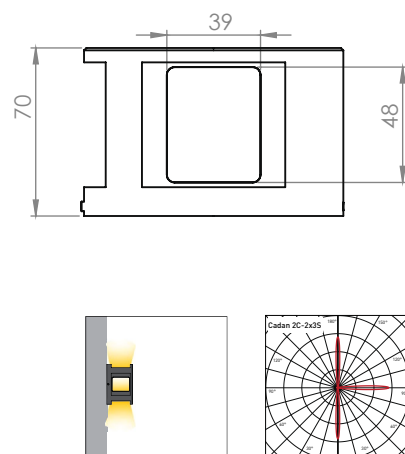


Specification

- Dimension: Ø108mm x H70mm
- Input Voltage: 24VDC
- Power consumption: 3x3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 6° (other: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: III



Dimension



CIR-NEXI-2X8S

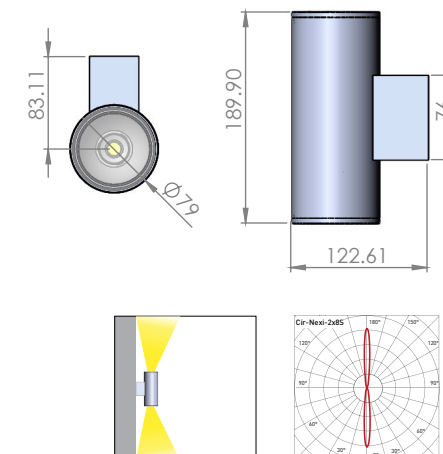


Specification

- Dimension: Ø79mm x 190mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 2x8W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24° (other: 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 65
- Class: I



Dimension



CADAN 4-4X3S

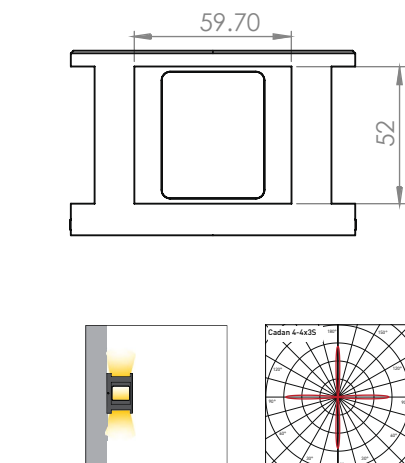


Specification

- Dimension: Ø108mm x H70mm
- Input Voltage: 24VDC
- Power consumption: 4x3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 6° (other: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: III



Dimension



MONTE-2X7S

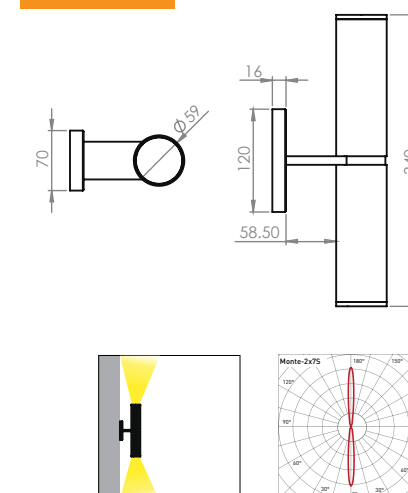


Specification

- Dimension: Ø59mm x 340mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 2 x 7W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24° (other: 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: I



Dimension



CADAN 5-5X3S

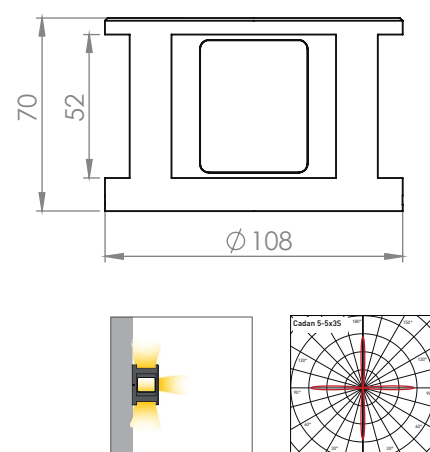


Specification

- Dimension: Ø108mm x H70mm
- Input Voltage: 24VDC
- Power consumption: 5x3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 6° (other: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: III



Dimension



CIRGAR-7S

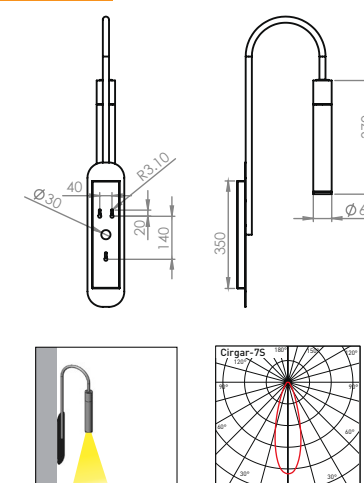


Specification

- Dimension: Ø60 mm x L370 mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 7W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 65
- Class: I



Dimension

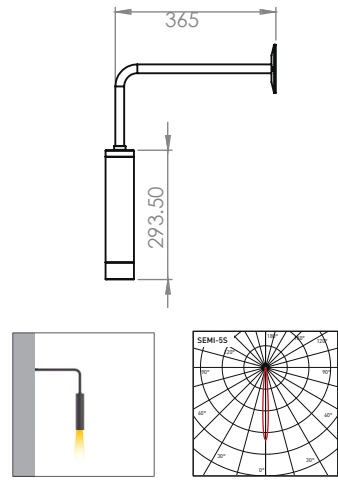


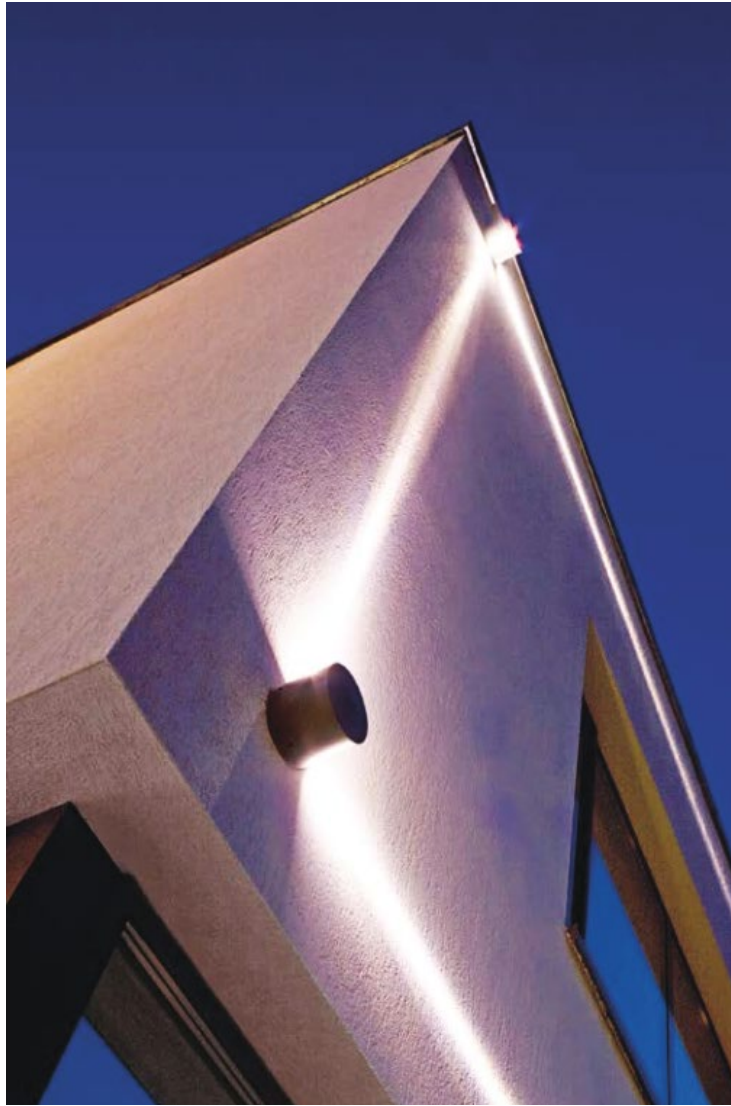
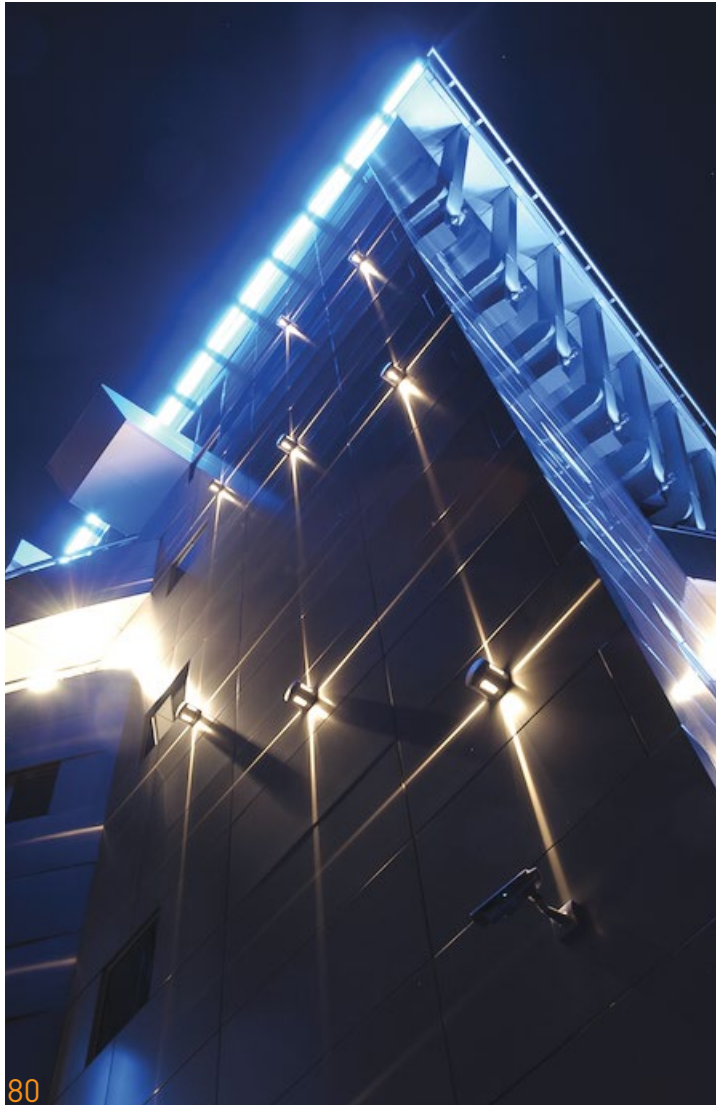
SEMI-5S

Specification

- Dimension: Ø64.5 mm x 294mm x365 mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: I

Dimension





WALL LUMINAIRES SURFACE MOUNTED

WALL LUMINAIRES SURFACE MOUNTED

06

BOLLARDS AND PATHWAY LUMINAIRES



VELI-12S



BOLLARD-2S



MINA-6S



TREE-6



SAN - 9

VELI-12S

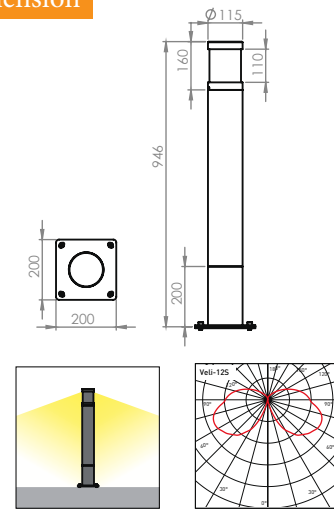


Specification

- Dimension: Ø115mm x H946mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Specical Light
- Function Dimmer: None
- Material: Wood
- Finishing (Color housing): Brown
- IP: 65
- Class: I



Dimension



BOLLARD-2S

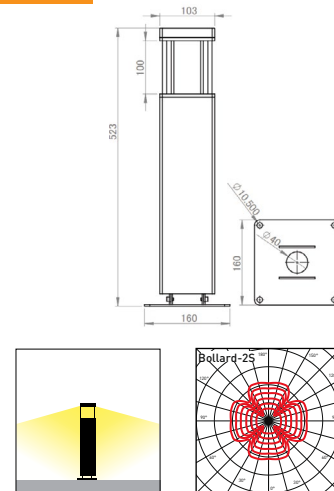


Specification

- Dimension: 103mm x 103mm x 523mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 2W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Wood
- Finishing (Color housing): Brown
- IP: 65
- Class: I



Dimension



MINA-6S

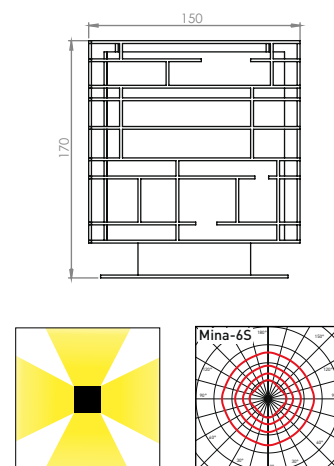


Specification

- Dimension: 150 x 150 x 170mm
- Input Voltage: 220VAC (50-60Hz)- Built In
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Inox 304
- Finishing (Color housing): PVD Brass color
- IP: 65
- Class: I



Dimension



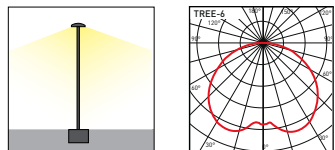
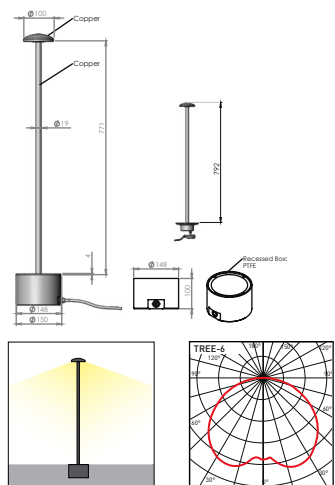
TREE-6



Specification

- Dimension: 6W- $\varnothing 100 \times H800\text{mm}$;
12W- $\varnothing 100 \times H1300\text{mm}$
- Input Voltage: 90-240VAC (43-60Hz)
- Power consumption: 6W- $\varnothing 100 \times H800\text{mm}$;
12W- $\varnothing 100 \times H1300\text{mm}$
- Efficiency: 82%
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Brass
- Finishing (Color housing): Brass
- IP: 66
- Class: I

Dimension



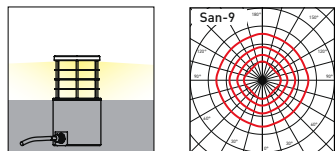
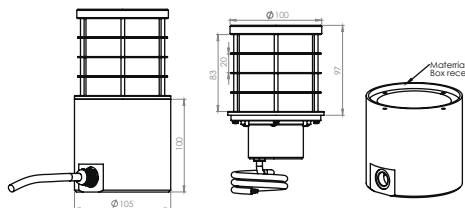
SAN-9



Specification

- Dimension: $\varnothing 100 \times H97\text{mm}$
- Input Voltage: 90-240VAC (43-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Color: Option
- Angle: Diffuser
- Function Dimmer: None (Orther contact us)
- Material: In304
- Finishing (Color housing): Inox
- IP: 66
- Class: I

Dimension



07 AREA FLOODLIGHTS



DOMAN-24F



DOMAN-36F



DOMAN-72F



HELY-500S



HELY-560SE



HELY-1000S



PICCO-120S



NATA-450S

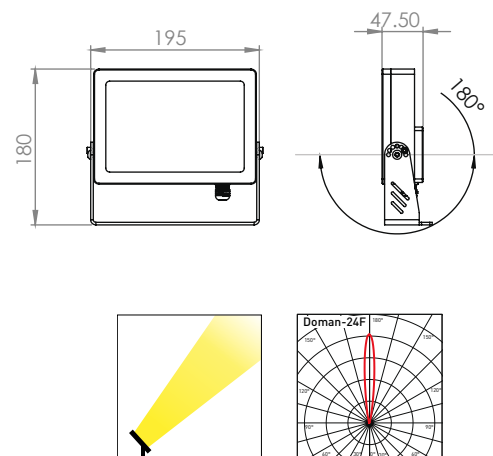
DOMAN-24F



Specification

- Dimension: L195mm x H180mm x W48mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 24W
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGB
- Angle: 24° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: DMX 512
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: I

Dimension



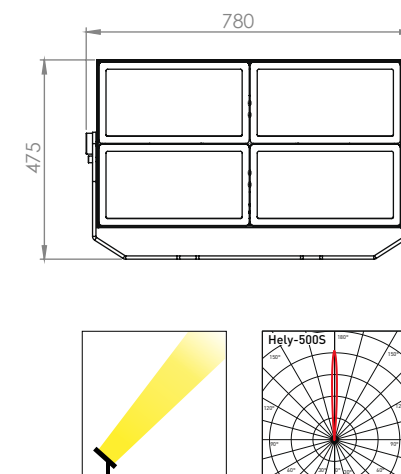
HELY-500S



Specification

- Dimension: L780mm x W475mm x H110mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 500W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 8° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Anodized Aluminium, Glass
- Finishing (Color housing): Black
- IP: 66
- Class: I

Dimension



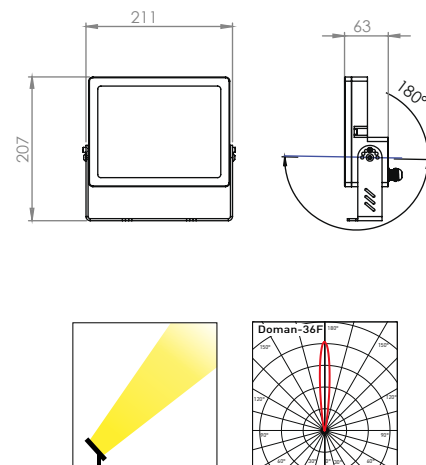
DOMAN-36F



Specification

- Dimension: L211mm x H207mm x W63mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 36W
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGB
- Angle: 24° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: DMX 512
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: I

Dimension



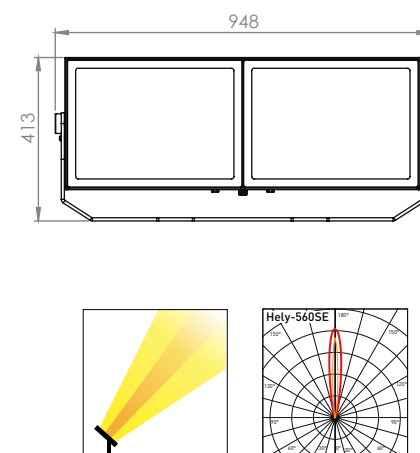
HELLY-560SE



Specification

- Dimension: L948mm x W413mm x H413mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 560W - RGBW
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGBW
- Angle: 16° x 40° (orther: 36°, 45°, 60°, 90°, 10°x40°, 10°x90°, 20°x40°, ...)
- Function Dimmer: DMX512
- Material: Aluminium
- Finishing (Color housing): White Grey
- IP: 66
- Class: I

Dimension



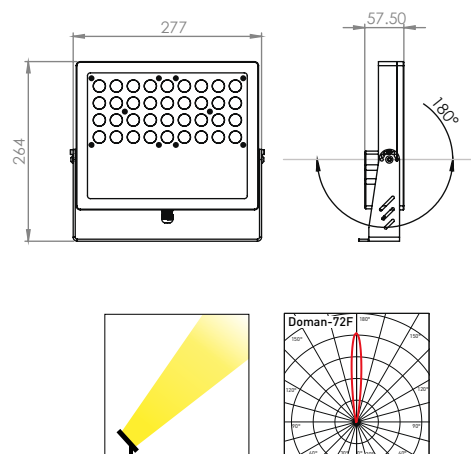
DOMAN-72F



Specification

- Dimension: L277mm x H264mm x W57.5mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 72W
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGB
- Angle: 24° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: DMX 512
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: I

Dimension



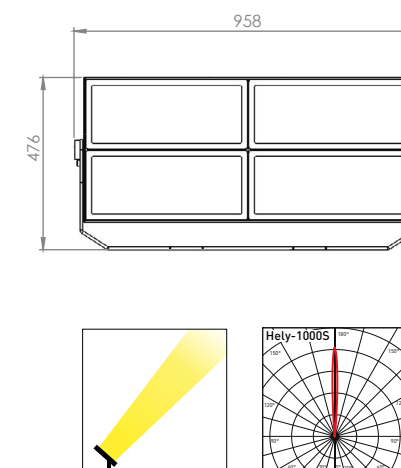
HELLY-1000S



Specification

- Dimension: L958mm x H476mm x W157mm
- Input Voltage: 110-230VAC (50-60Hz)
- Power consumption: 1000W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 8° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 66
- Class: I

Dimension



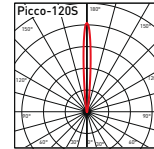
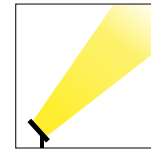
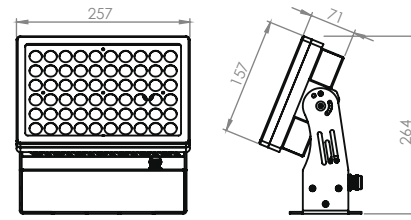
PICCO-120S



Specification

- Dimension: L257mm x W71mm x H264mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 120W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 65
- Class: I

Dimension



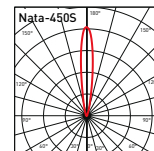
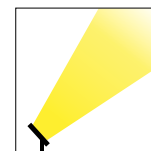
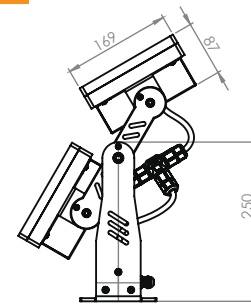
NATA-450S



Specification

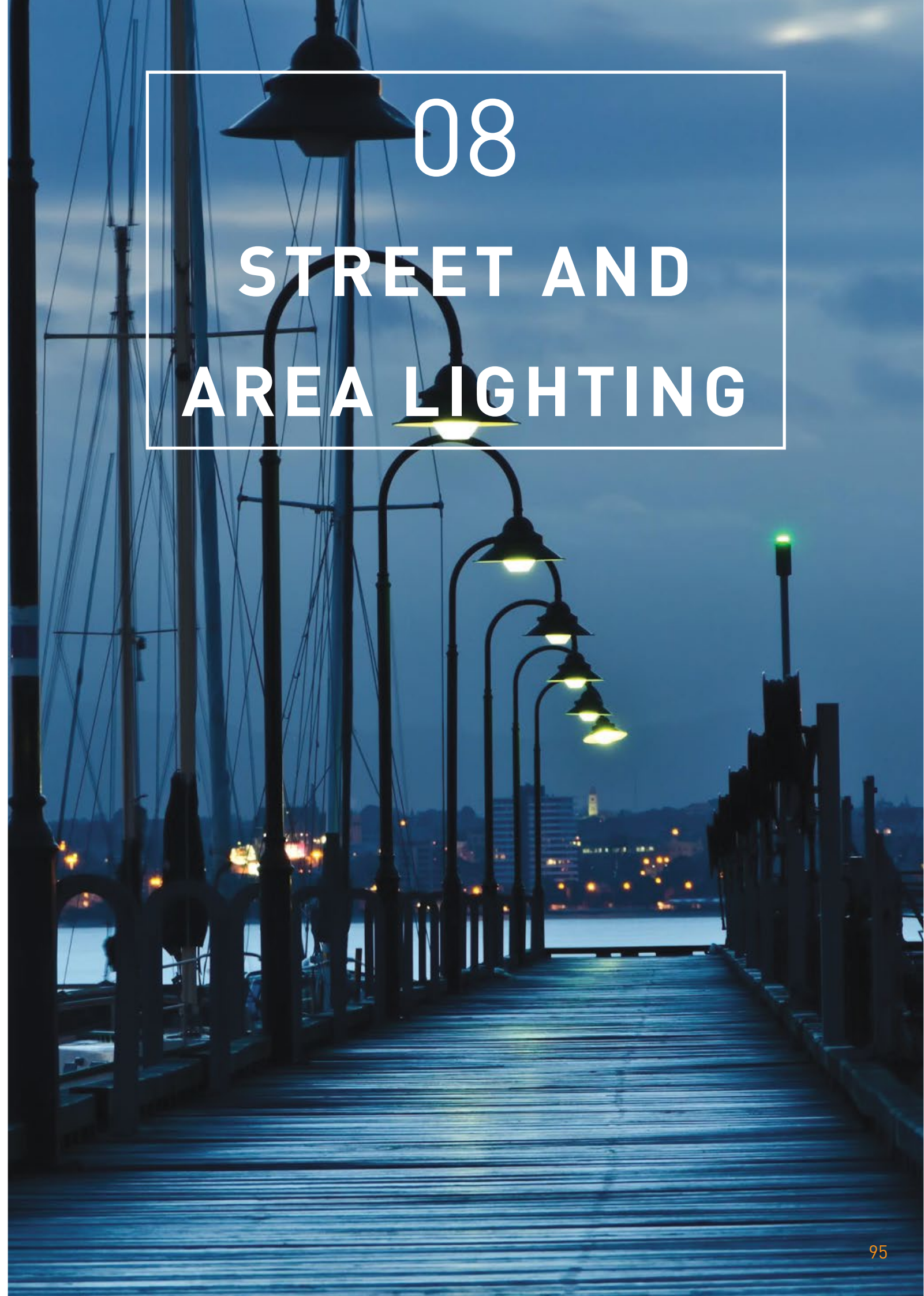
- Dimension: L250mm x H169mm x W87mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: Up 250W + Down 200W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 36° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Anodized Aluminium, Glass
- Finishing (Color housing): Black
- IP: 66
- Class: I

Dimension





08 STREET AND AREA LIGHTING





FUNNEL-70S



ARC-80S



ARC-2X80S

FUNNEL-70S

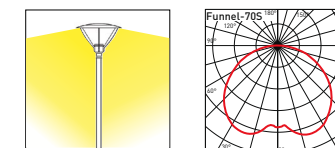
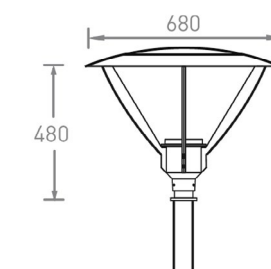


Specification

- Dimension: Ø680mm x H480mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 70W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Special for Street Light
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 65
- Class: I



Dimension



ARC-80S

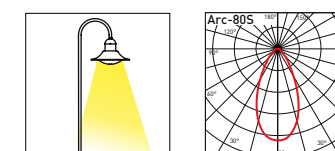
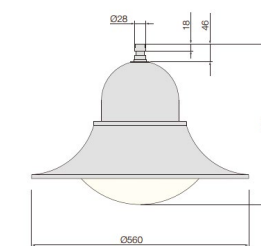


Specification

- Dimension: Ø560mm x H411mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 80W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 65
- Class: I



Dimension



ARC-2x80S

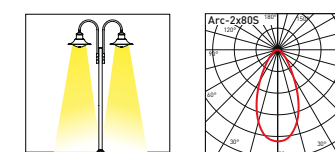
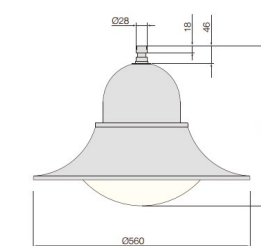


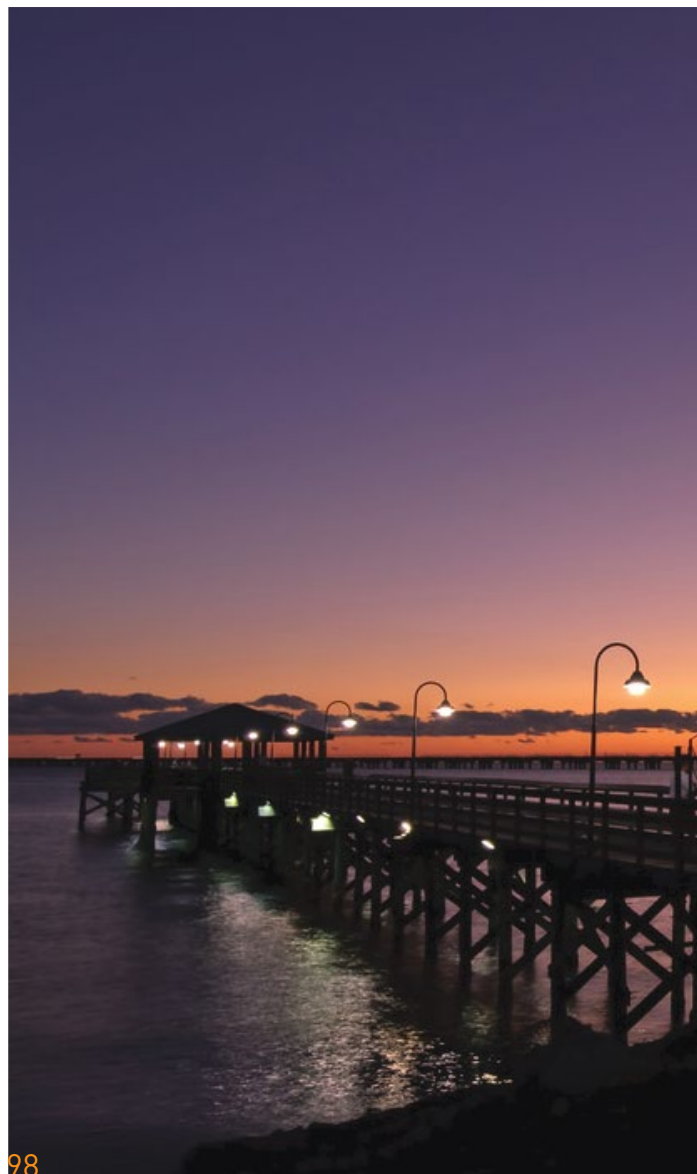
Specification

- Dimension: 2 x (Ø560mm x H411mm)
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 2 x 80W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 65
- Class: I

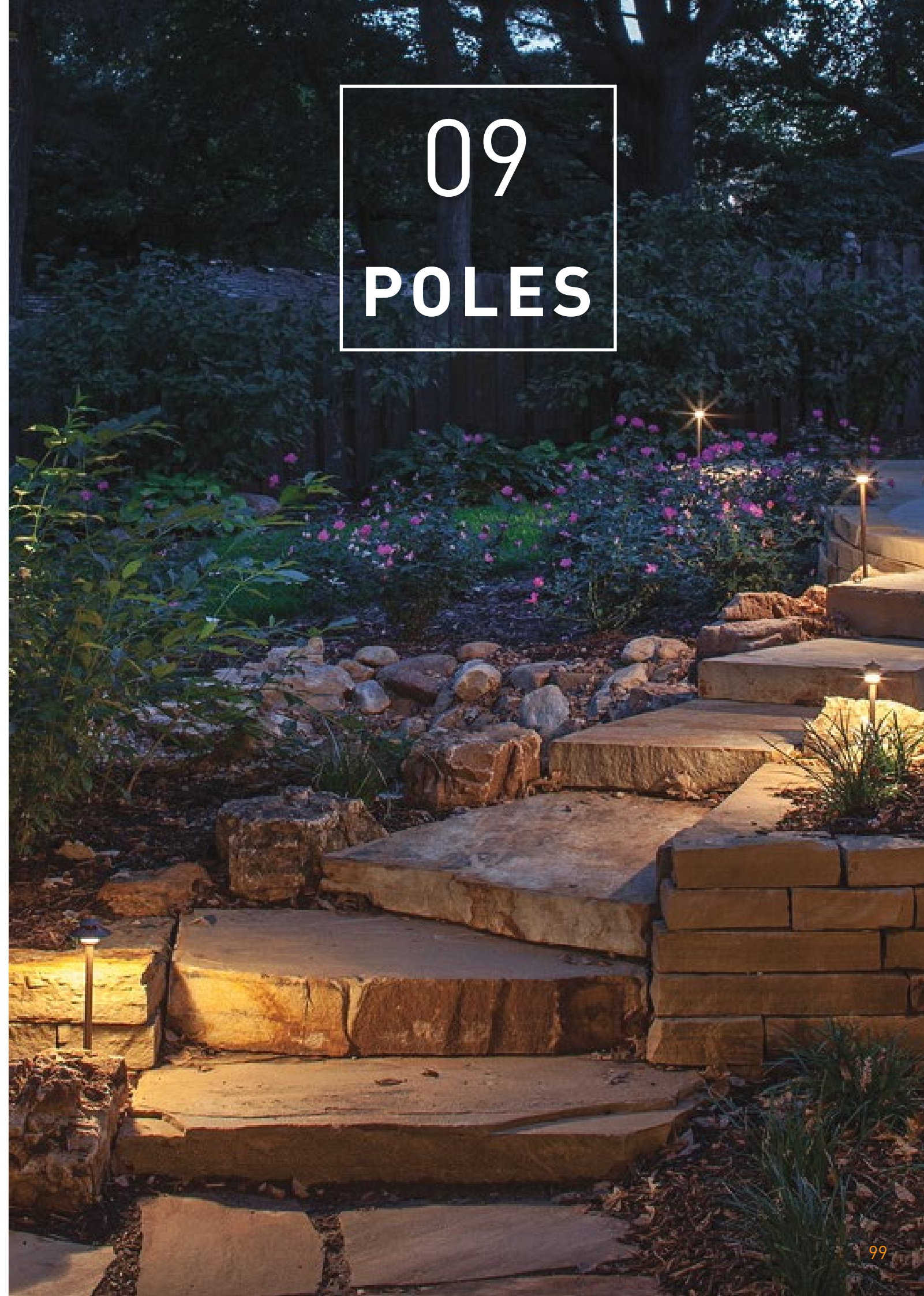


Dimension





09 POLES





HAT BI05

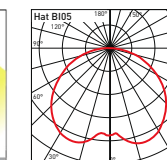
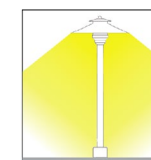
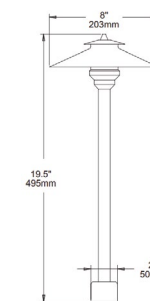
Hat BI05



Specification

- Dimension: Ø203mm x 495mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser 360°
- Function Dimmer: None
- Material: Brass - Solid
- Finishing (Color housing): Natural Copper
- IP: 65
- Class: I

Dimension

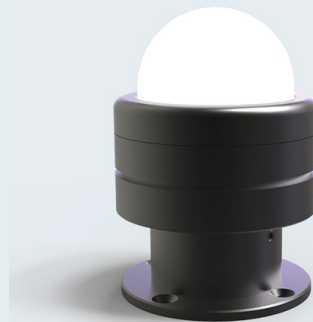




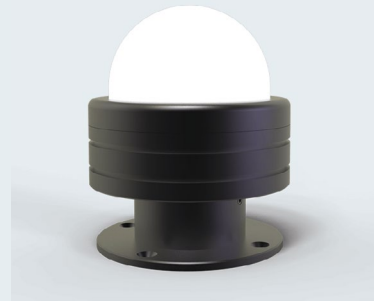
10 MEDIA & FACADE LIGHTING



NOPE-2F



NOPE-4E



NOPE-6E



NOPE-12E



POINT CIR-6S

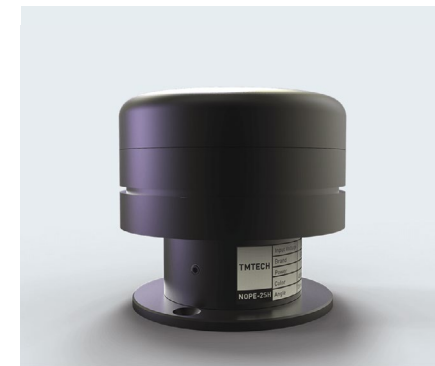


PION-2S



POINT-01F

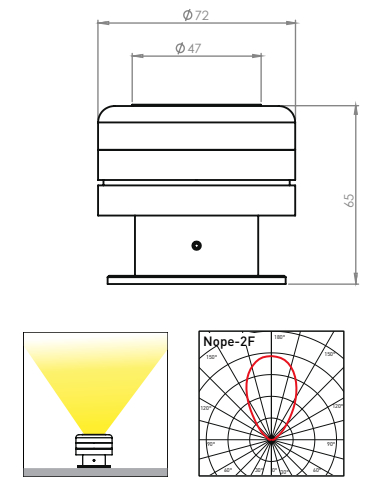
NOPE-2F



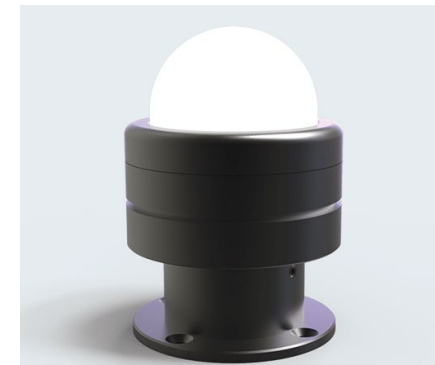
Specification

- Dimension: $\varnothing 47\text{mm} \times \text{H}65\text{mm}$
- Input Voltage: 24VDC
- Power consumption: 2W
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGB
- Angle: Diffuser
- Function Dimmer: DMX512 with Auto Setting Address
- Material: Aluminium
- Finishing (Color housing): White Gray
- IP: 67
- Class: III

Dimension



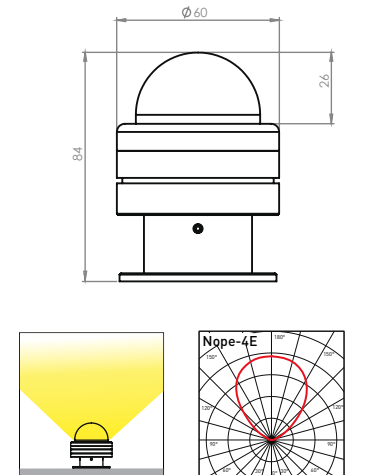
NOPE-4E



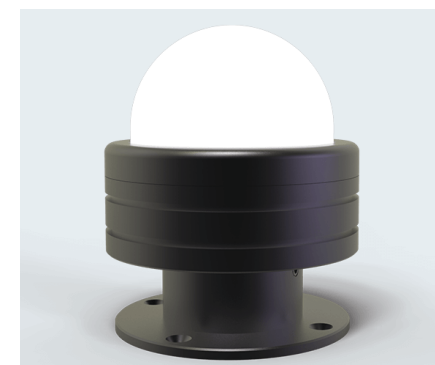
Specification

- Dimension: $\varnothing 60\text{mm} \times 84\text{mm}$
- Input Voltage: Injector for Nope-4EH 200W
- Power consumption: 4W
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGBW
- Angle: Diffuser - 150°
- Function Dimmer: DMX512 with Auto Setting Address
- Material: Aluminium
- Finishing (Color housing): Dark Gray
- IP: 66
- Class: III

Dimension



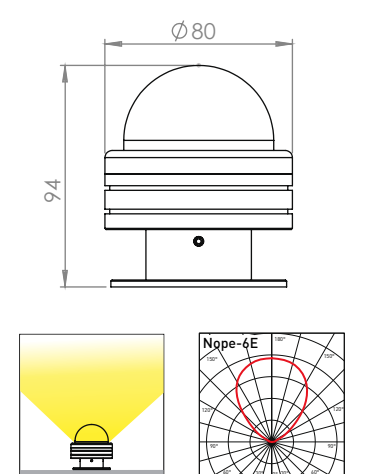
NOPE-6E



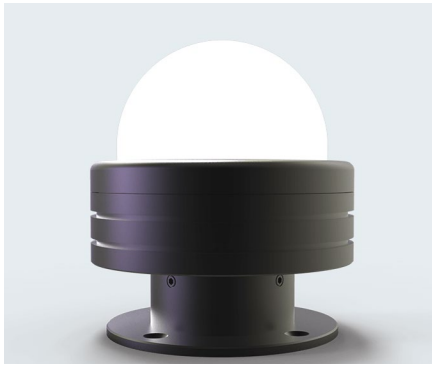
Specification

- Dimension: $\varnothing 80\text{mm} \times 94\text{mm}$
- Input Voltage: Injector for Nope-6EH 200W
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGBW
- Angle: Diffuser- 150°
- Function Dimmer: DMX512 with Auto Setting Address
- Material: Aluminium
- Finishing (Color housing): Dark Gray
- IP: 66
- Class: III

Dimension



NOPE-12E

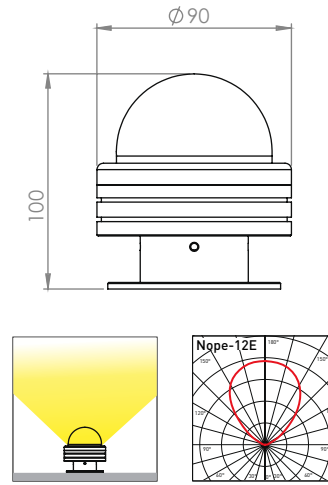


Specification

- Dimension: Ø90mm x 100mm
- Input Voltage: Injector for Nope-12EH 200W
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGBW
- Angle: Diffuser - 150°
- Function Dimmer: DMX512 with Auto Setting Address
- Material: Aluminium
- Finishing (Color housing): Dark Gray
- IP: 66
- Class: III



Dimension



POINT-01F

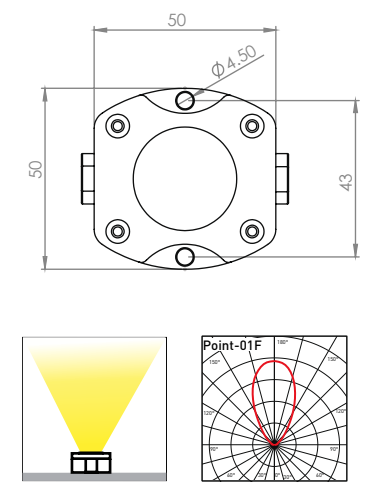


Specification

- Dimension: 50mmx50mmx22.5mm
- Input Voltage: PowerCore
- Power consumption: 1W (50 nodes on string)
- Efficiency: 82%
- Brand of LEDs: LED OSRAM
- Color: RGB
- Angle: 90° (orther : 24°, 36°, 45°, 60°, 90°...)
- Function Dimmer: DMX512 with Auto Setting Address
- Material: Aluminium
- Finishing (Color housing): White
- IP: 66
- Class: III



Dimension



POINT CIR-6S

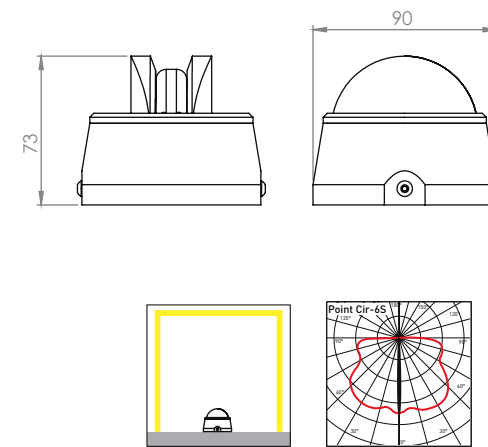


Specification

- Dimension: Ø90mm x H73mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 6W
- Efficiency: 80%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Special (5x180°)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 65
- Class: I



Dimension



PION-2S

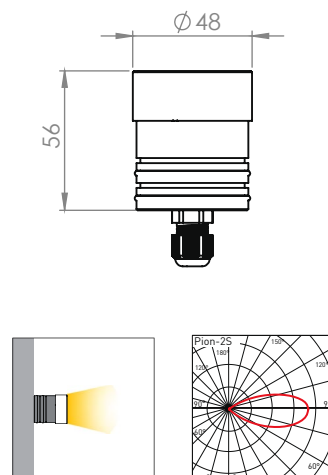


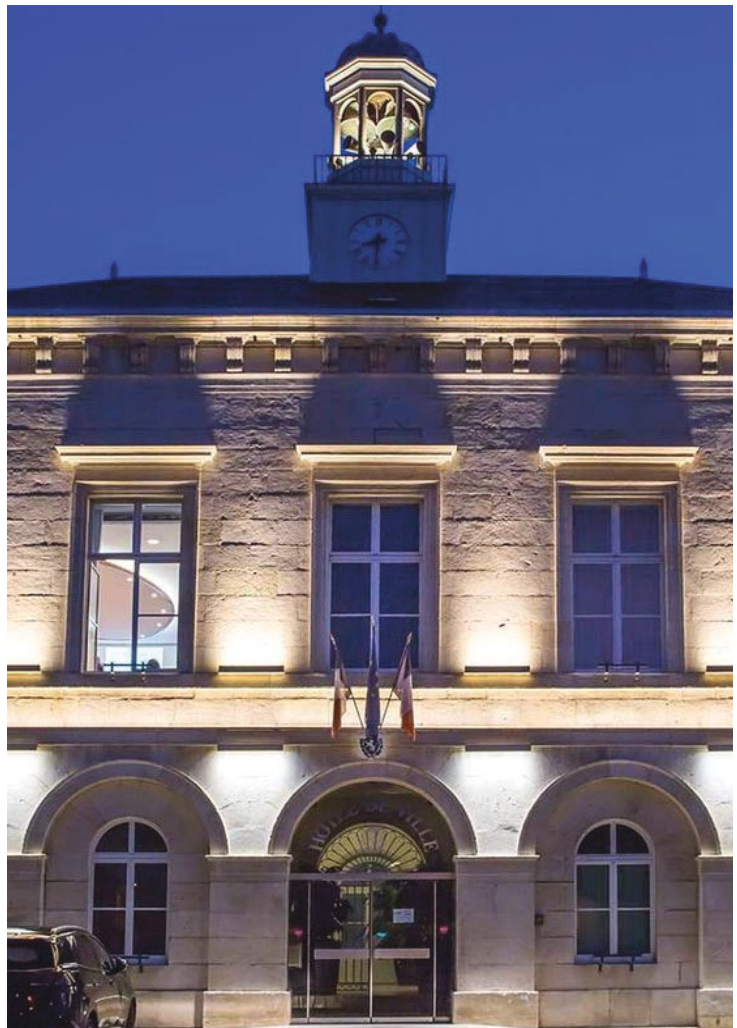
Specification

- Dimension: Ø48mm x H56mm
- Input Voltage: 24VDC
- Power consumption: 2W
- Efficiency: 80%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White Gray
- IP: 66
- Class: III



Dimension





HANDRAIL LIGHT SOLUTIONS

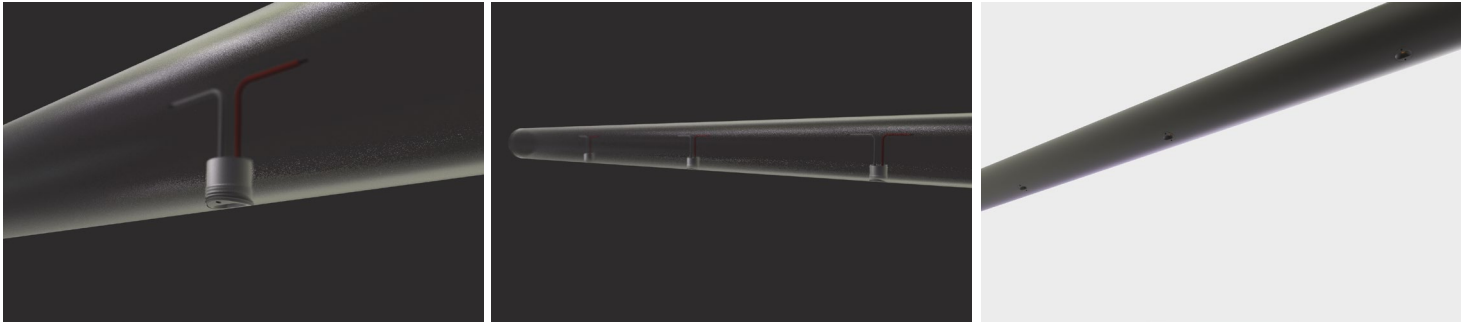
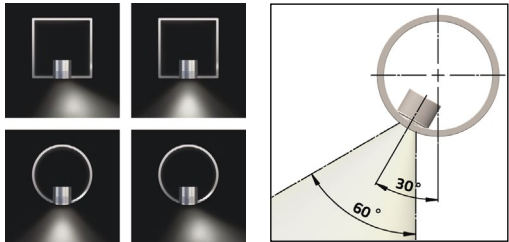
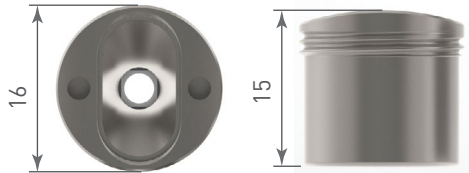


LUMIO-2S

Specification

- Dimension: M16x15mm
- Input Voltage: Constan Current 500mA
- Power consumption: 2W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Asymmetric
- Function Dimmer: None
- Material: Inox 304
- Finishing (Color housing): Inox
- IP: 67
- Class: III

Dimension



11 CEILING LUMINAIRES



MOUNTED-C-10S



GADI-3S



SLICE-5S



SLICE-9S



SLICE-20S



COUPE-5S



COUPE-9S



COUPE-13S



FIORE-9S



TUBA-5S



TUBA-9S



TUBA-13S



ALTRA-13S



ALTRA-5S



TUBE-5S



MOON-9S



MOON-12S



BEEKMAN-6S



KEIRO-3S



ELEPHANT-5S



ELEPHANT-9S



NERO-3S



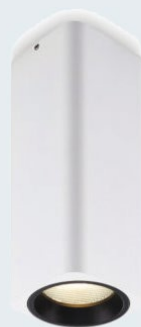
NERO-6S



CALUMET-5S



CALUMET-9S



CALUMET-12S



MOON-5S

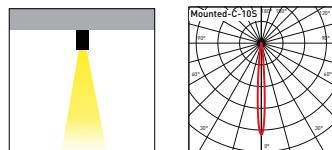
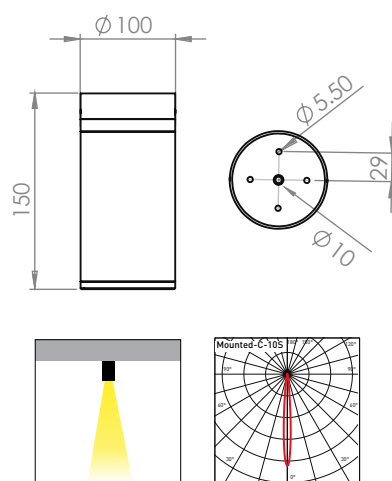
MOUNTED-C-10S



Specification

- Dimension: H150mm x Ø100mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 10W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Inox, Face: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I

Dimension



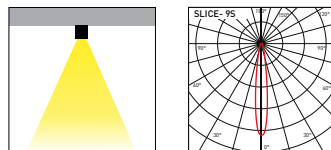
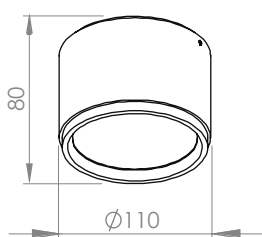
SLICE- 9S



Specification

- Dimension: Ø110 x H80mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser (orther : 24°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I

Dimension



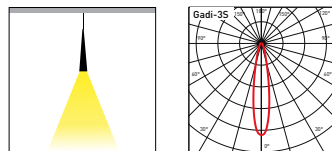
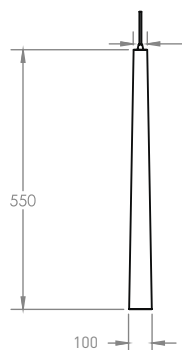
GADI-3S



Specification

- Dimension: Ø100x H550mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 40° (orther : 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: SPCC
- Finishing (Color housing): Electrostatic black painting
- IP: 44
- Class: I

Dimension



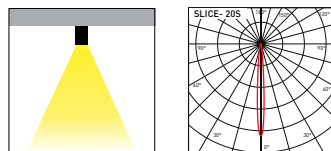
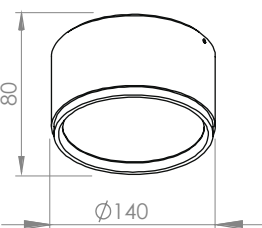
SLICE- 20S



Specification

- Dimension: Ø140 x H80mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 20W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser (orther : 24°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I

Dimension



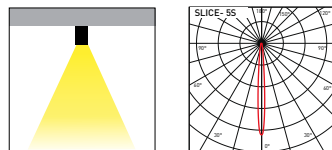
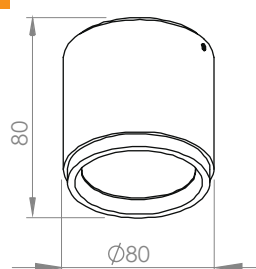
SLICE- 5S



Specification

- Dimension: Ø80 x H80mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser (orther : 24°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I

Dimension



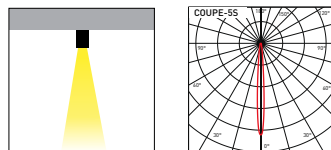
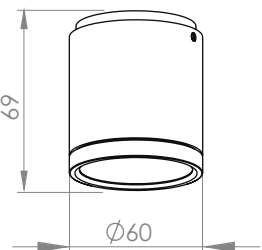
COUPE-5S



Specification

- Dimension: Ø60 x H69mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser (orther : 24°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 44
- Class: I

Dimension



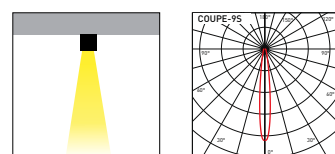
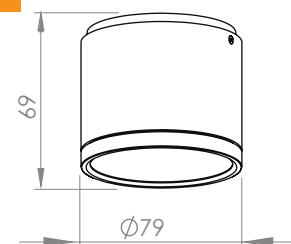
COUPE-9S



Specification

- Dimension: Ø79 x H69mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser (other: 24°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 44
- Class: I

Dimension



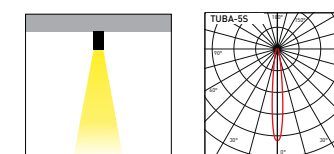
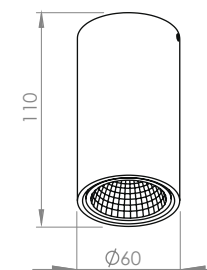
TUBA-5S



Specification

- Dimension: Ø60 x H110mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 44
- Class: I

Dimension



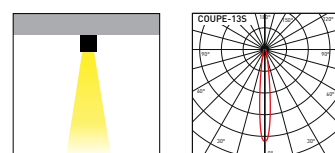
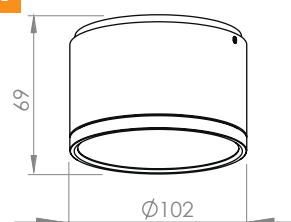
COUPE-13S



Specification

- Dimension: Ø102 x H69mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 13W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser (other: 24°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 44
- Class: I

Dimension



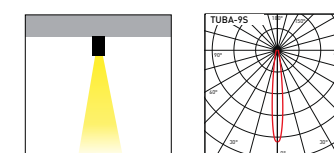
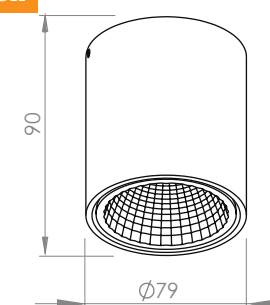
TUBA-9S



Specification

- Dimension: Ø79 x H90mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 44
- Class: I

Dimension



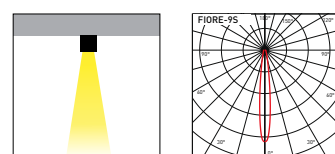
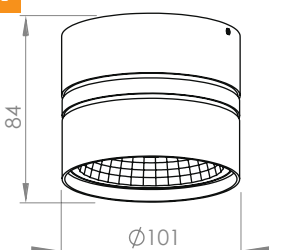
FIORE-9S



Specification

- Dimension: Ø101 x H84mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 44
- Class: I

Dimension



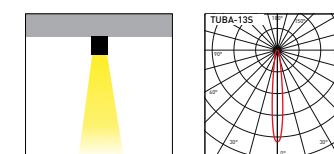
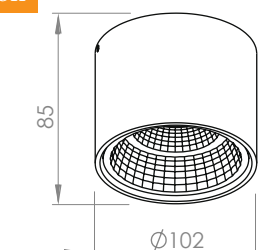
TUBA-13S



Specification

- Dimension: Ø79 x H90mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 13W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 44
- Class: I

Dimension





ALTRA-13S

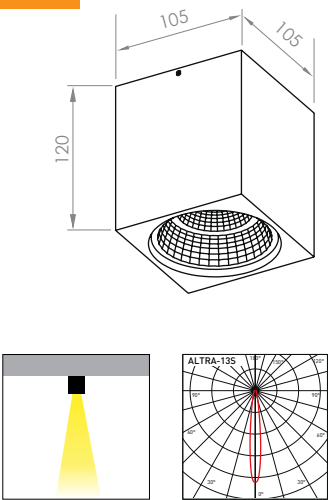


Specification

- Dimension: 105mm x 105mm xH120mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 13W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 44
- Class: I



Dimension



KEIRO -3S

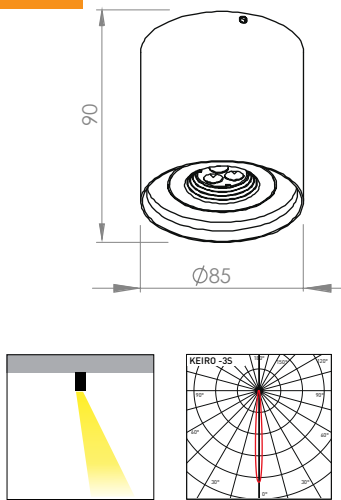


Specification

- Dimension: Ø85 x H90mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 10°, 15°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I



Dimension



ALTRA-5S

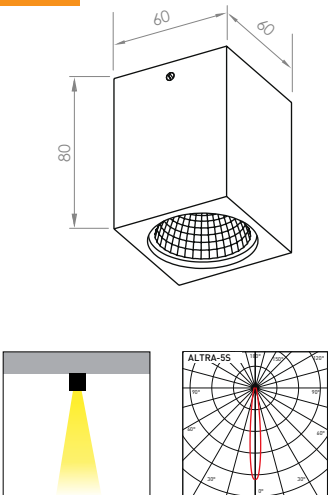


Specification

- Dimension: 60mm x 60mm xH80mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 44
- Class: I



Dimension



ELEPHANT-5S

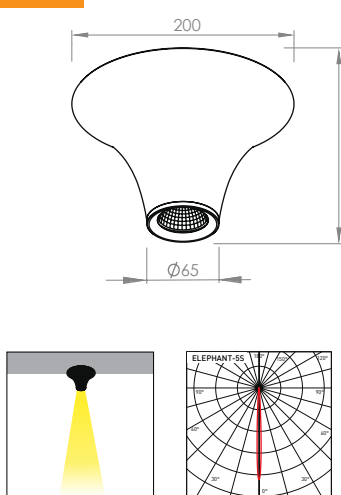


Specification

- Dimension: Ø65 x H125mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 10°, 15°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I



Dimension



TUBE-5S

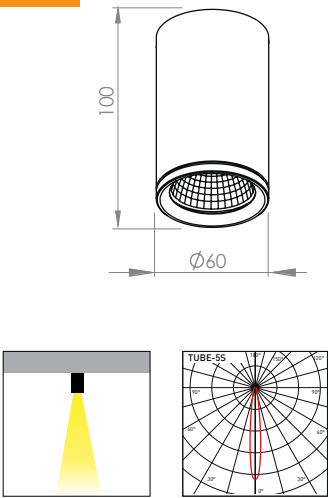


Specification

- Dimension: Ø60 x H100mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I



Dimension



ELEPHANT-9S

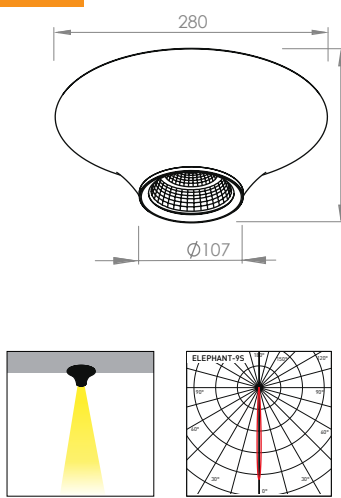


Specification

- Dimension: Ø107 x H95mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 10°, 15°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I



Dimension



NERO-3S

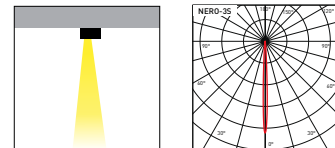
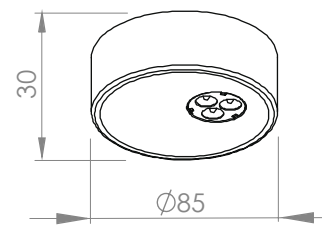


Specification

- Dimension: Ø85 x H30mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 44
- Class: I



Dimension



CALUMET-9S

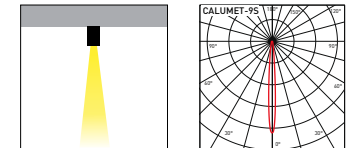
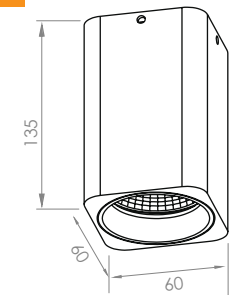


Specification

- Dimension: 60mm x 60mm x H135mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I



Dimension



NERO-6S

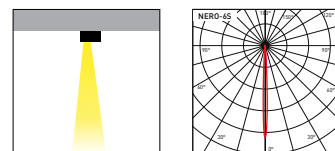
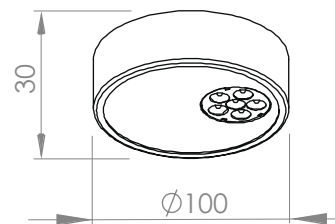


Specification

- Dimension: Ø100 x H30mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 44
- Class: I



Dimension



CALUMET-12S

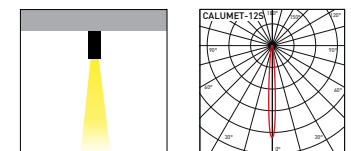
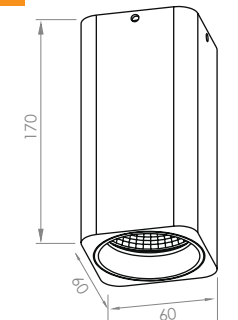


Specification

- Dimension: 60mm x 60mm x H170mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I



Dimension



CALUMET-5S

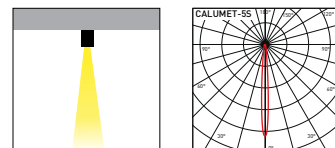
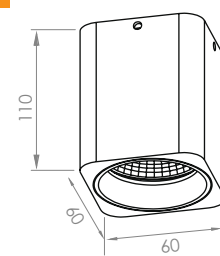


Specification

- Dimension: 60mm x 60mm x H110mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°, 90°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 44
- Class: I



Dimension



MOON-5S

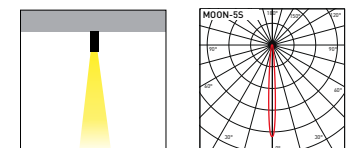
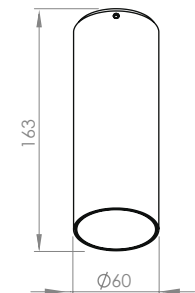


Specification

- Dimension: Ø60 x H163mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gold
- IP: 44
- Class: I



Dimension



MOON-9S

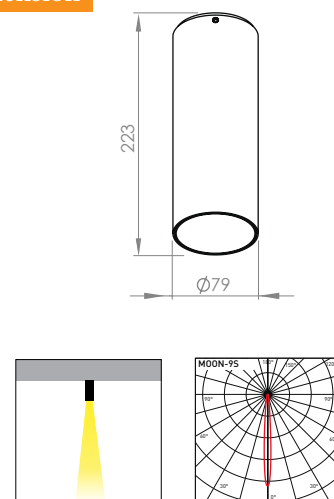


Specification

- Dimension: Ø79 x H223mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gold
- IP: 44
- Class: I



Dimension



MOON-12S

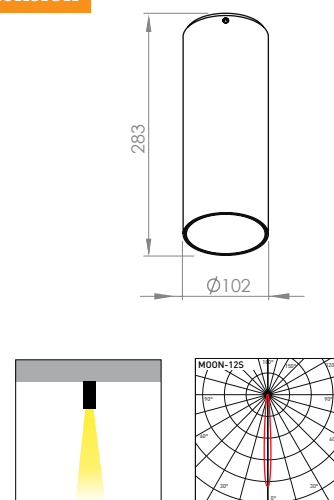


Specification

- Dimension: Ø102 x H283mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gold
- IP: 44
- Class: I



Dimension



BEEKMAN-6S

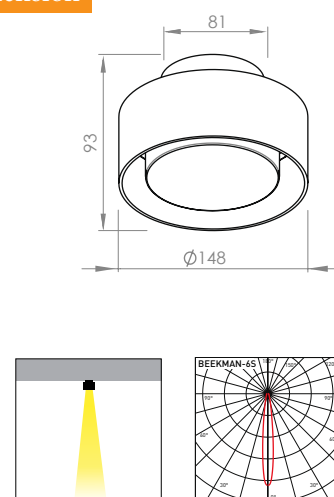


Specification

- Dimension: Ø148 x H93mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser (other: 24°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black, Gray, White, Gold
- IP: 44
- Class: I



Dimension







12

BED LIGHT



MALIA-2S



FASU-3S



FLOOR-10S

MALIA-2S

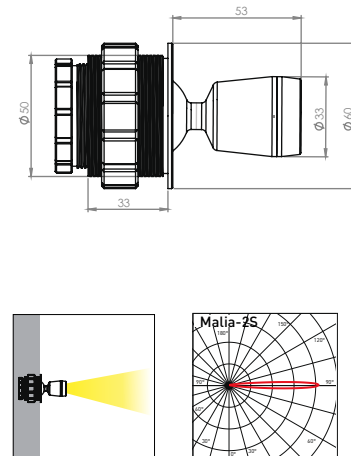


Specification

- Dimension: Ø60mm x 53mm x cutout Ø50mm
- Input Voltage: 12VDC
- Power consumption: 2W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 44
- Class: III



Dimension



FASU-3S

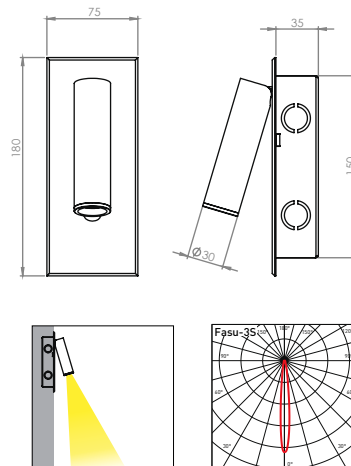


Specification

- Dimension: 75mm x 180mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 25° (orther: 10°, 15°, 36°, 45°, 60°, 90°...)
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 20
- Class: I



Dimension



FLOOR-10S

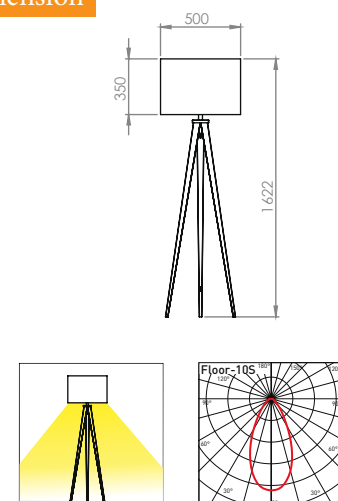


Specification

- Dimension: L1622mm x 500mm x 350mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 10W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: Diffuser
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I



Dimension





13

INDUSTRIAL LIGHTING



FARY-70S

FARY-70S

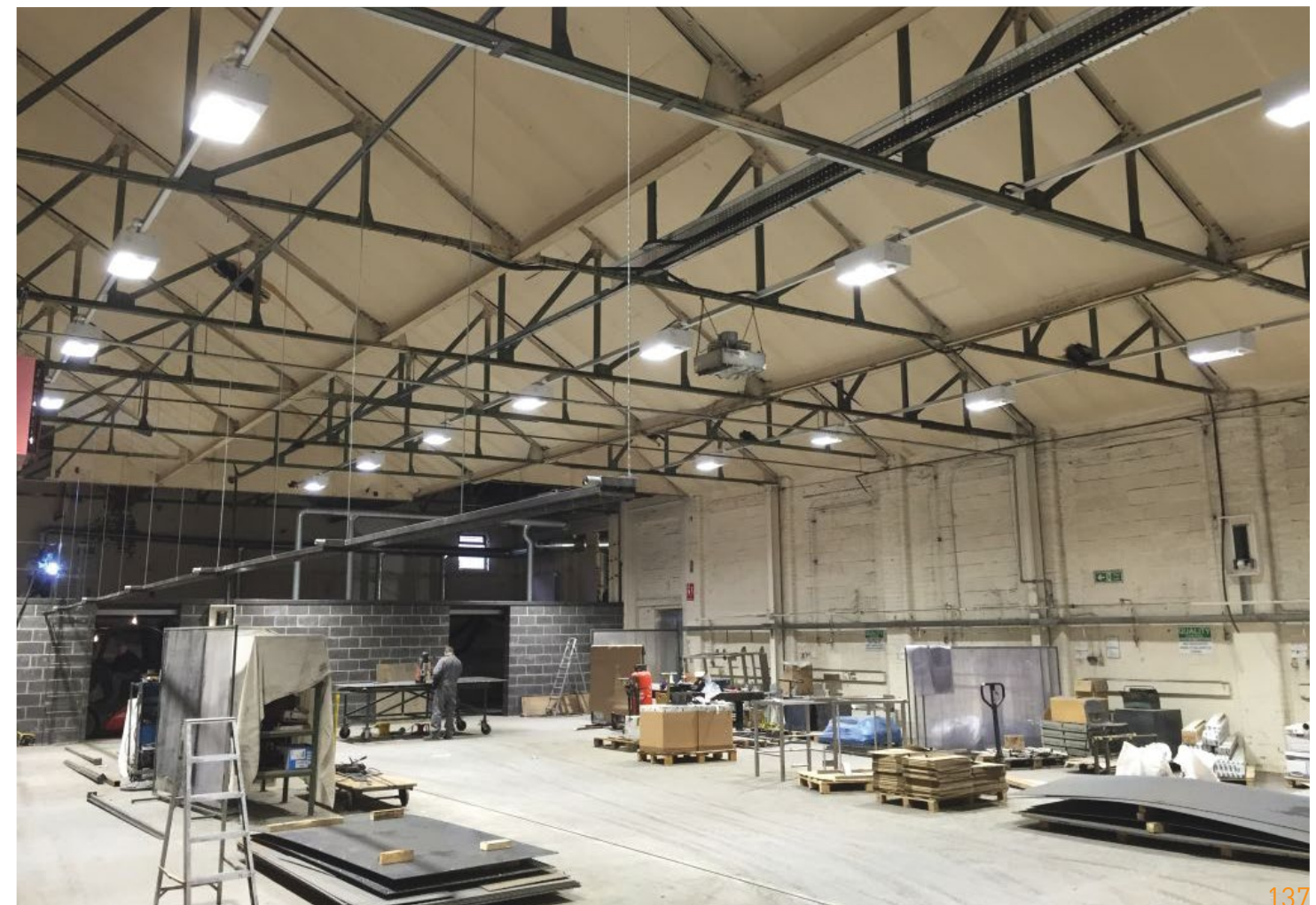
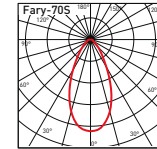
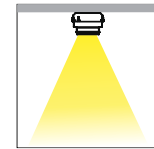
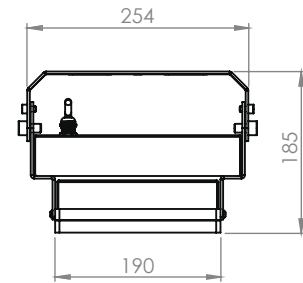


Specification

- Dimension: L254mm x W190mm x H185mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 70W
- Efficiency: 80%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: High light
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Gray
- IP: 65
- Class: I



Dimension



14 PENDENT LIGHTS



VANE-3S



OMEGA-3S



PIPE-3S



GADI-5S



ICONICA-5S



DOBSON-5S

PENDENT LIGHTS



APLOMB-3S



APLOMB-6S



APLOMB-9S



CYL-3S



DROP-3S



FEBE-3S



POP-5S



POP-12S



CYLINDER-5S



CYLINDER-13S



YORI-5S



DADO-13S



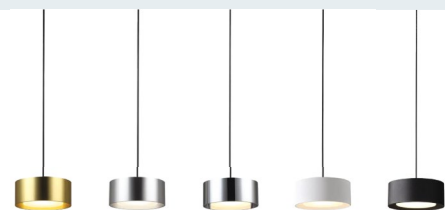
DADO-5S



PIPE-1S



FLARE-3S



DASH-6S



DASH-3x4S



DASH-4x4S

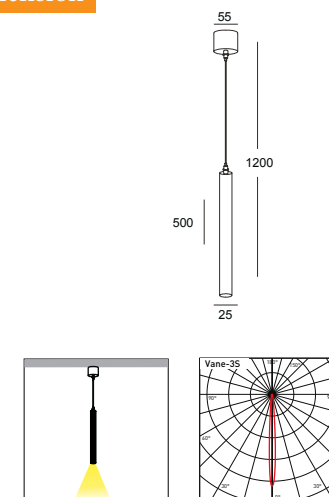
VANE-3S



Specification

- Dimension: Ø25mm x H500mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I

Dimension



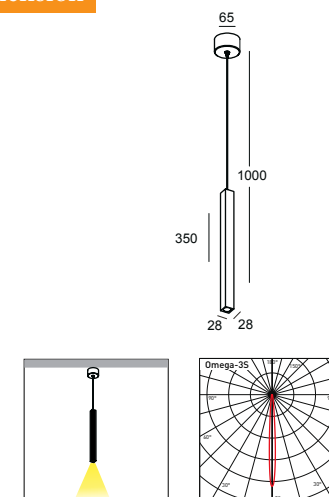
OMEGA-3S



Specification

- Dimension: 28mm x 28mm x H350mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 20
- Class: I

Dimension



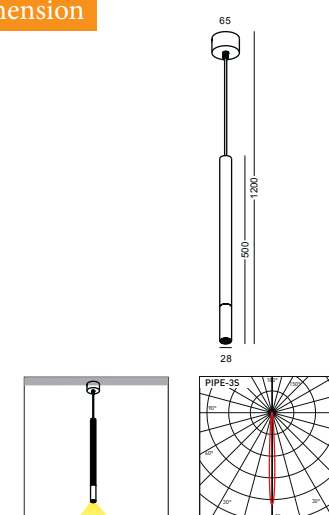
PIPE-3S



Specification

- Dimension: Ø28mm x H500mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black, White, Chrome plated
- IP: 20
- Class: I

Dimension



GADI-5S

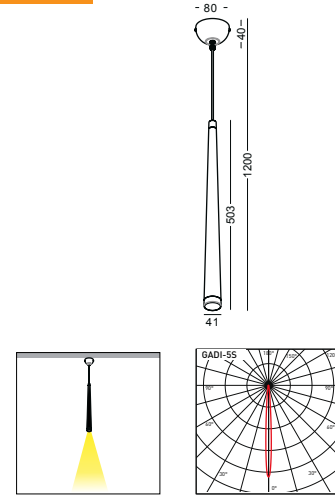


Specification

- Dimension: Ø41mm x H503mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black, White, Chrome plated
- IP: 20
- Class: I



Dimension



APLOMB-3S

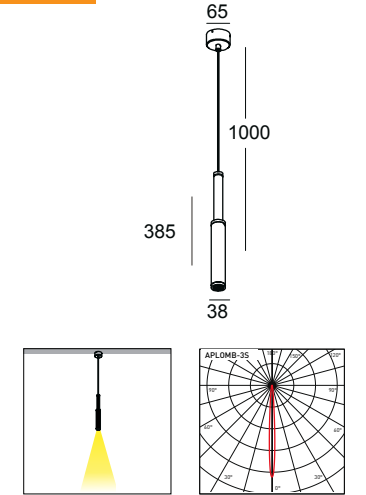


Specification

- Dimension: Ø38mm x H385mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I



Dimension



ICONICA-5S

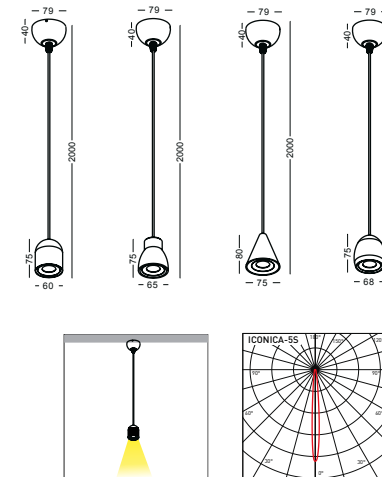


Specification

- Dimension: Ø60mm x H75mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I



Dimension



APLOMB-6S

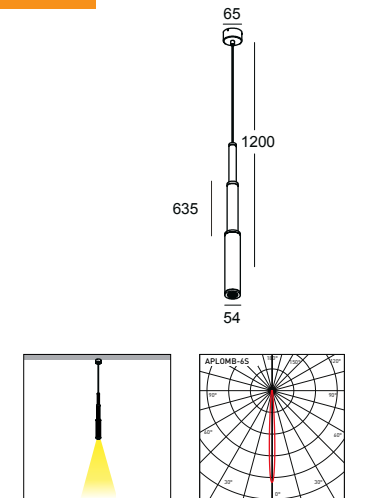


Specification

- Dimension: Ø54mm x H635mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I



Dimension



DOBSON-5S

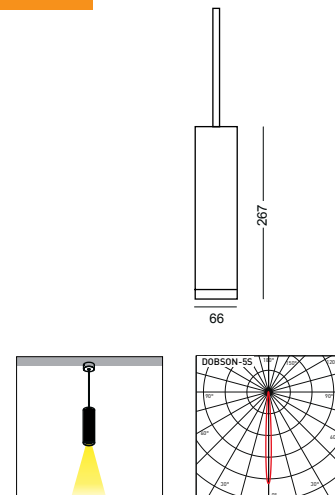


Specification

- Dimension: Ø66mm x H267mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I



Dimension



APLOMB-9S

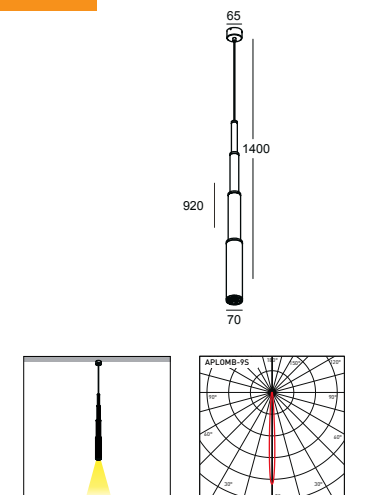


Specification

- Dimension: Ø70 x H920mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 9W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I



Dimension



CYL-3S

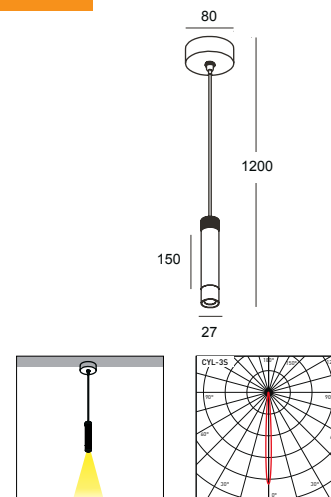


Specification

- Dimension: Ø27mm x H150mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 20
- Class: I



Dimension



POP-5S

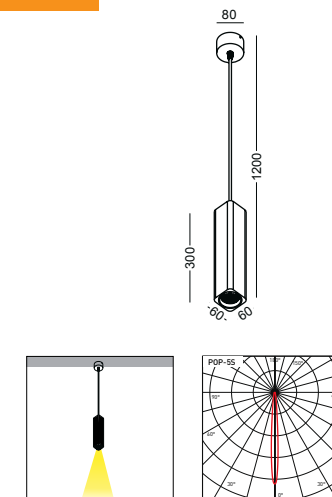


Specification

- Dimension: 60mm x 60mm x H300mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 20
- Class: I



Dimension



DROP-3S

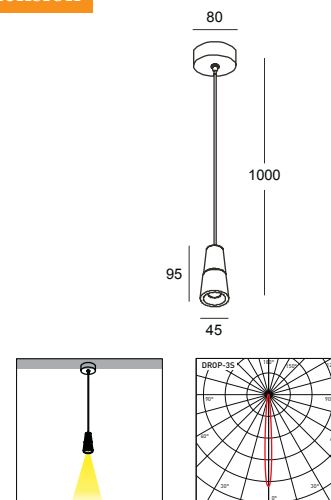


Specification

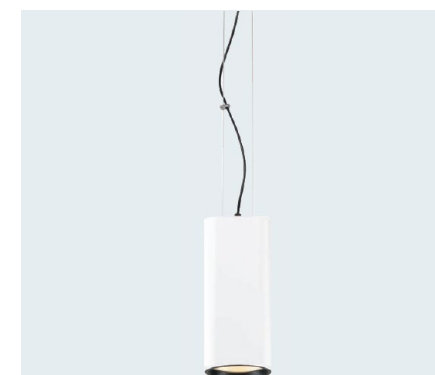
- Dimension: Ø45mm x H95mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 20
- Class: I



Dimension



POP-12S

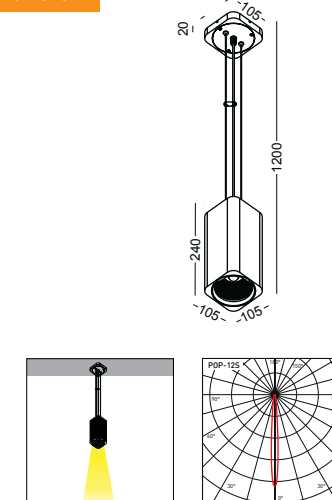


Specification

- Dimension: 150 x 150mm x H240mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 20
- Class: I



Dimension



FEBE-3S

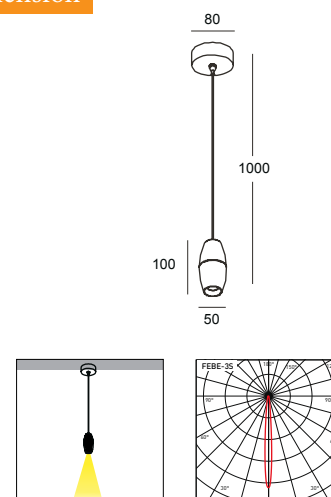


Specification

- Dimension: Ø50mm x H100mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 20
- Class: I



Dimension



CYLINDER-5S

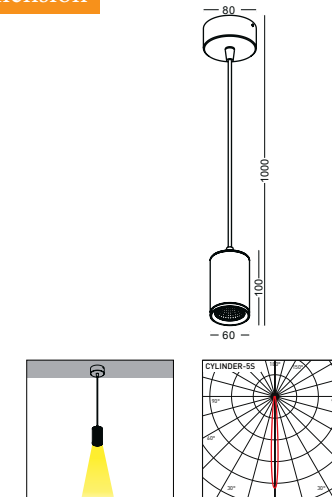


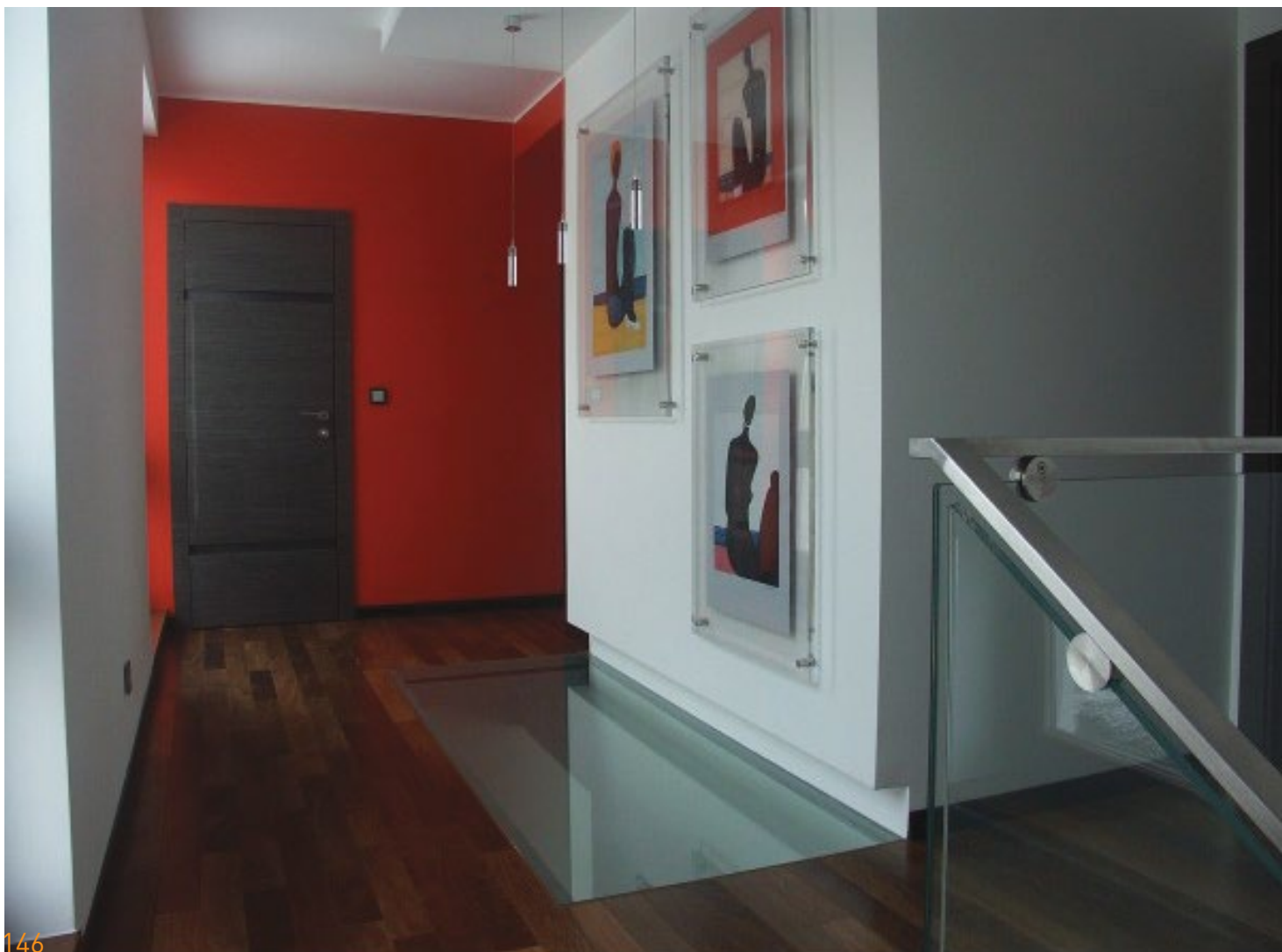
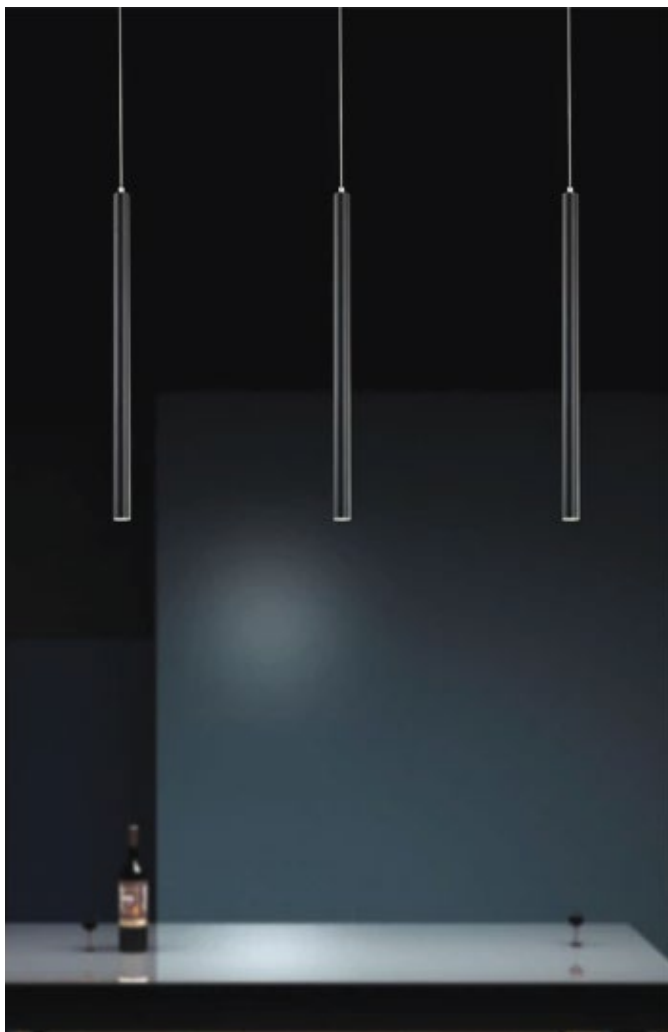
Specification

- Dimension: Ø60mm x H100mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 20
- Class: I



Dimension





CYLINDER-13S

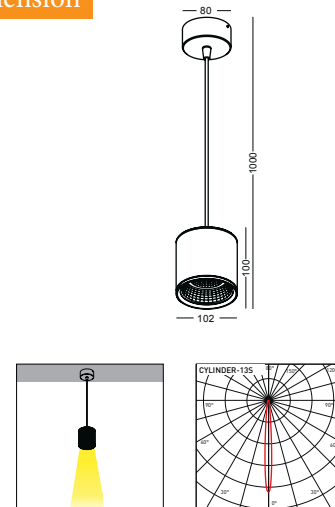


Specification

- Dimension: Ø102mm x H100mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 13W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White
- IP: 20
- Class: I



Dimension



DADO-5S

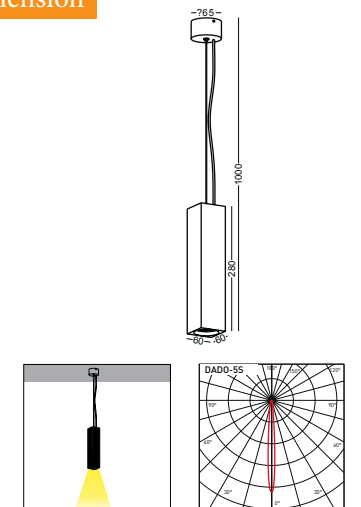


Specification

- Dimension: 60mm x 60mm x H280mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 5W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 20
- Class: I



Dimension



YORI-5S

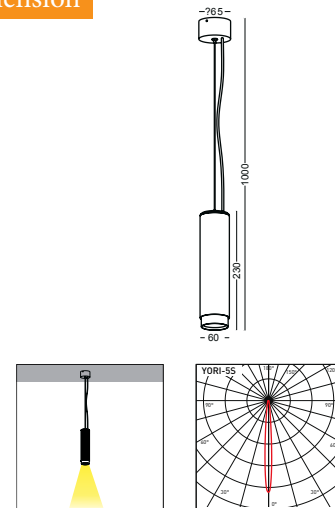


Specification

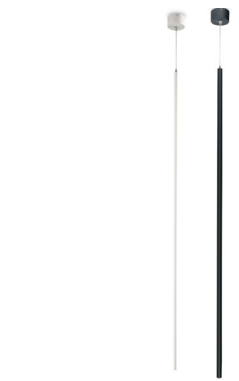
- Dimension: Ø60mm x H230mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 13W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 20
- Class: I



Dimension



PIPE-1S

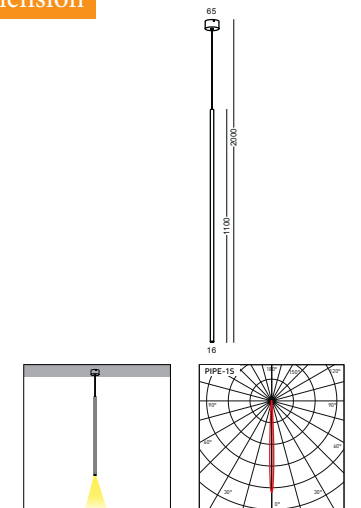


Specification

- Dimension: Ø60mm x H1100mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 1W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): White, Black, Red
- IP: 20
- Class: I



Dimension



DADO-13S

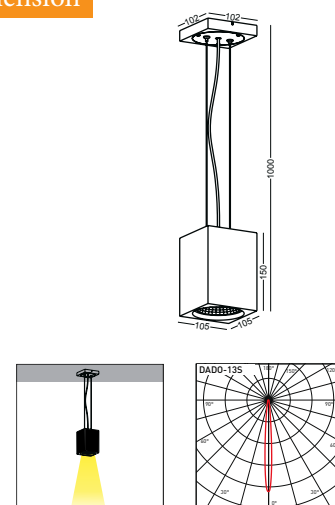


Specification

- Dimension: 105mm x 105mm x H150mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 13W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver
- IP: 20
- Class: I



Dimension



FLARE-3S

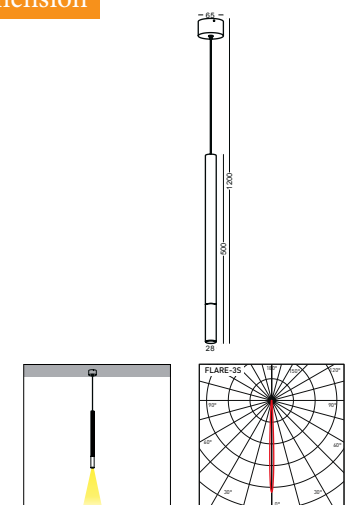


Specification

- Dimension: Ø28mm x H500mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 3W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I



Dimension



DASH-6S

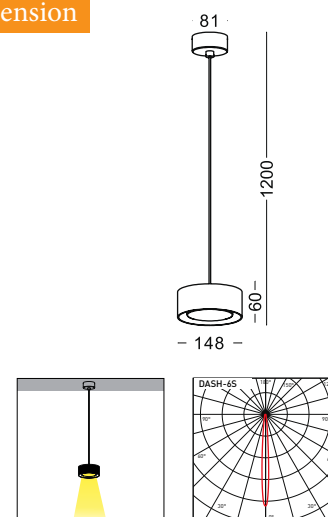


Specification

- Dimension: Ø148mm x H60mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 6W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Silver, White, Black, Gold
- IP: 20
- Class: I



Dimension



DASH-3x4S

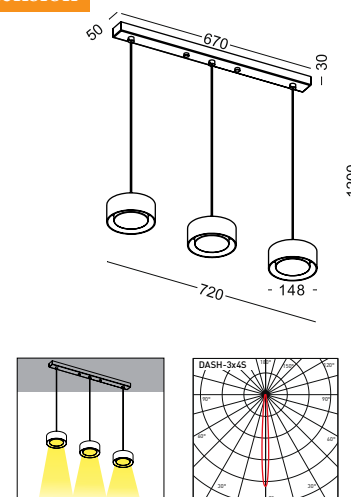


Specification

- Dimension: Ø148mm x L720mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 12W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I



Dimension



DASH-4x4S

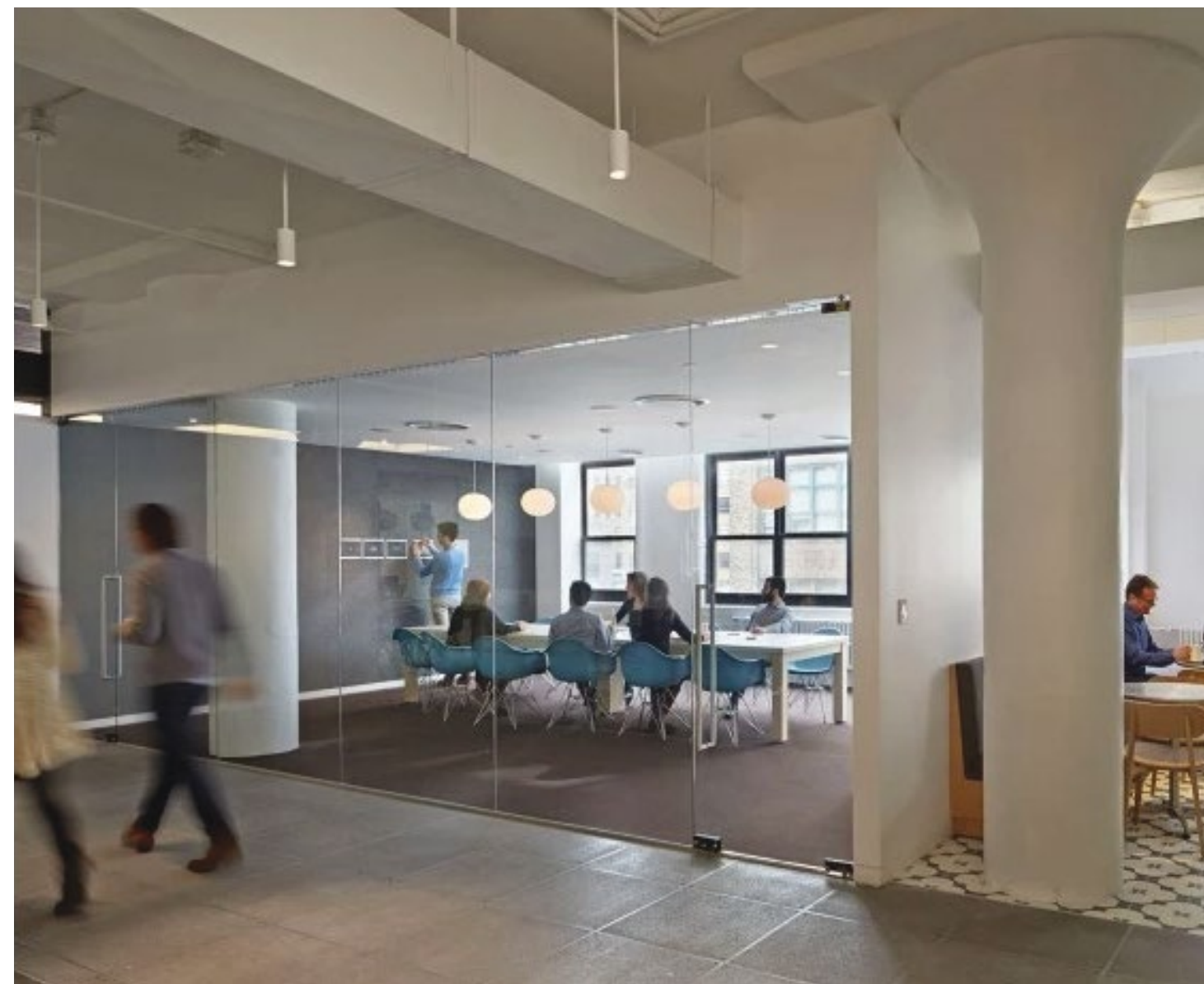
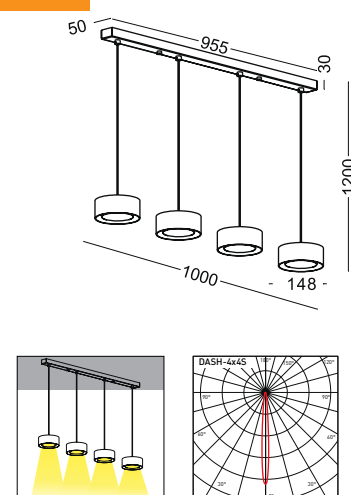


Specification

- Dimension: Ø148mm x L1000mm
- Input Voltage: 220VAC (50-60Hz)
- Power consumption: 16W
- Efficiency: 82%
- Brand of LEDs: LED CREE
- Color: Option
- Angle: 15°, 24°, 36°, 45°, 60°
- Function Dimmer: None
- Material: Aluminium
- Finishing (Color housing): Black
- IP: 20
- Class: I



Dimension





ORDERING INFORMATION

SeriesName-**X₁X₂X₃X₄X₅X₆X₇X₈X₉X₁₀X₁₁X₁₂-xxxxxx**

- 1, Power of LED: (X₁X₂X₃)
- 2, Angle(X₇X₈):
Diffuser, 05, 10, 15, 24, 36, 45, 60, 90, 120, 10x40, 10x90, 20x40, 00, 01, 02, 03, 04, 05, 06, 07, 08, 09, 10, 12, 13,
- 3, Control(X₉):
0: Don't care;1: DMX512; 2: Dali; 3:0-10V/1-10V; 4:Triac; 5: PWM; 6: KNX; 7: Zigbee; 8: Z-wave

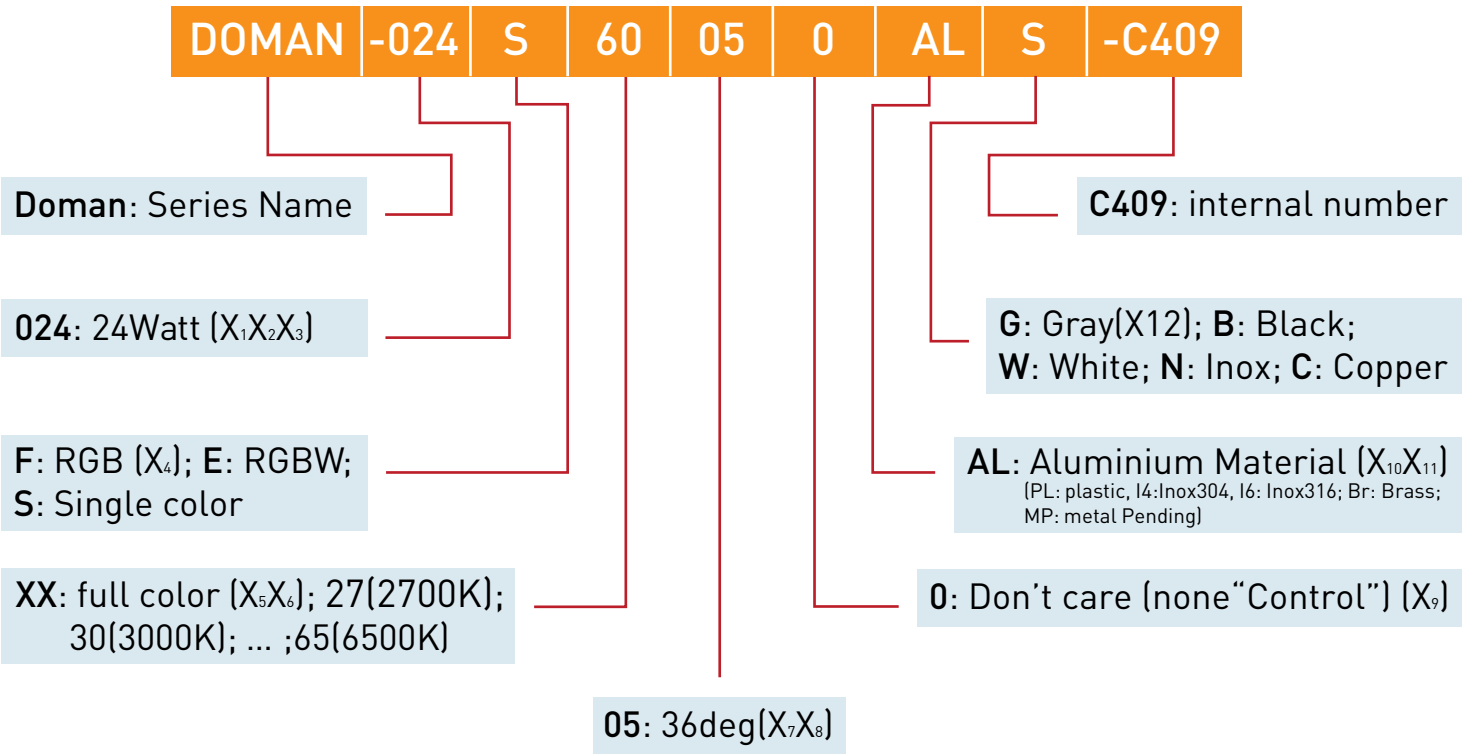
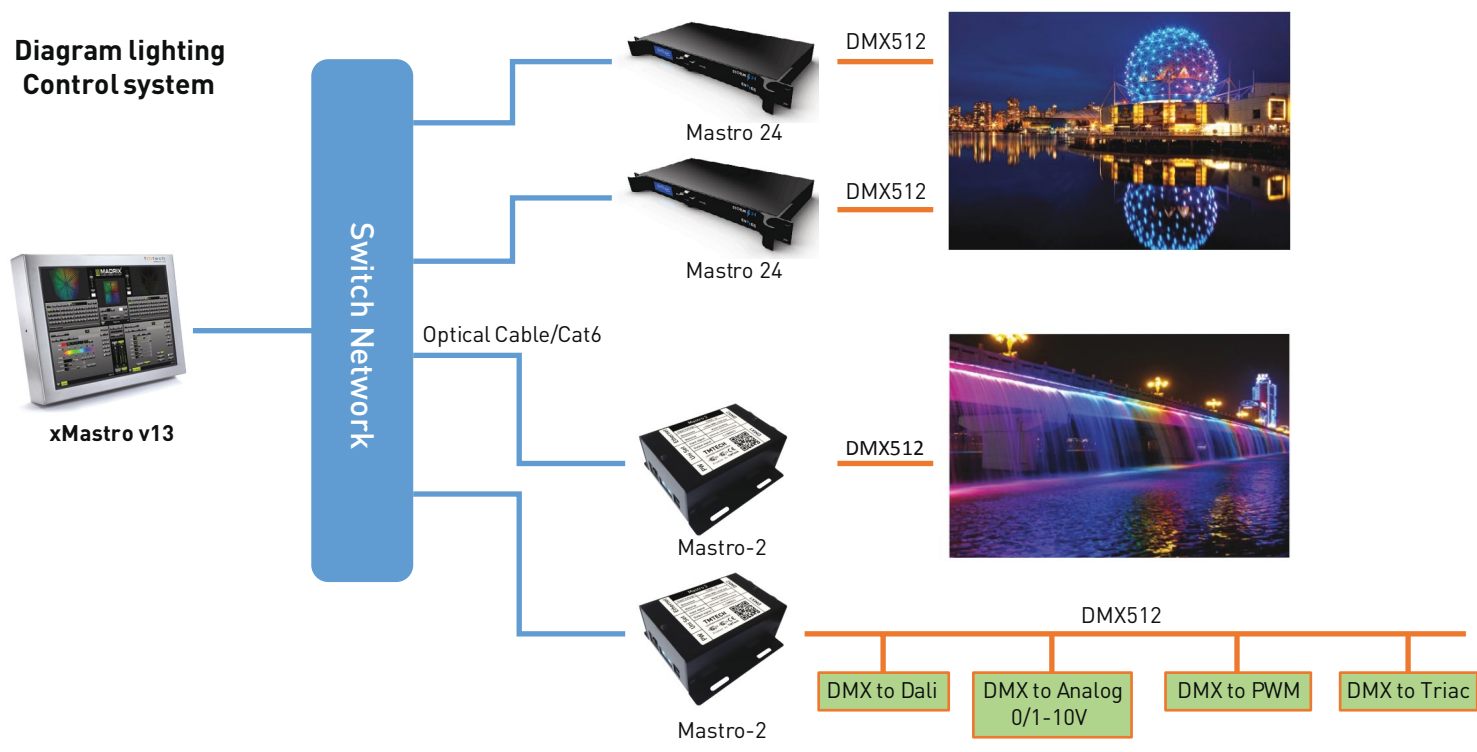


Diagram lighting Control system



XMASTRO V13-FULL



New Shapes for many Effects.
New Filters/FX: Kaleidoscope 6x, 8x, and 12x.
New Feature: Fixture Groups.
New Feature: Effect Parameter Chaser for Layers.
Various improvements for Cue List, Map Settings, Remote Control.
Many workflow improvements.
Various other new and improved features.
Touch HMI (cảm ứng) - 19inch
Maximum port number: Ultimate
Software: Madrix

MASTRO 24



Input: 100-240VAC (50-60Hz)
Input port: 1 Gigabit Ethernet port
Multi Protocol: ESP, Art Net, StreamingACN, KiNet
Jumbo Frame support
1 RS232 input for profile selection via serial command
Output DMX port: 24 Port
Size: H43.6mm/1.72" W463mm/18.25" D250mm/10"

MASTRO 2



Input Voltage: 12VDC- 1A (Adapter 220VAC)
Dimension: L100mmx W80mm x H40 mm
Output Signal: DMX512-1990
Material: Metal bending
Control: 1, Via Ethernet Protocol: ARTNET, TM-Light 2,
Output: 2 x DMX512 3, Control via Iphone(iOS); Android
Memories: 4MB store 5 Minutes
IP Standard: IP20
Application: Lighting Building, Lighting Media

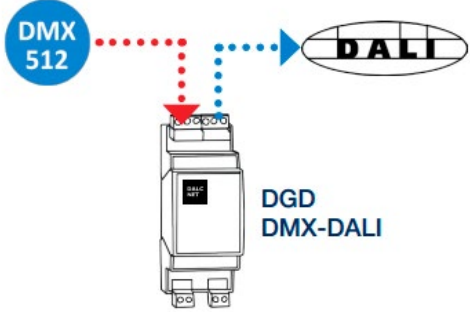
DMX TO DALI



The e:cue DMX to DALI/DSI converter allows the integration of DALI/DSI based dimming devices in DMX controlled surroundings. Its 6 outputs provide single channel DALI or DSI (user selectable) signals derived from 6 consecutive DMX channels for up to 96 dimming ballasts. It is either possible to connect all 96 DALI/DSI Fixtures to one output or a maximum of each 16 fixtures per output. Every DALI/DSI output uses a broadcast signal, which means all fixtures connected to one output will be set to the same values. Flexibility is made possible by user selectable auto or manual DMX addressing modes, RJ-45 or loose wiring in a DIN rail system housing. The device is optimized for performance in building automation environments while its compact form supports easy and intuitive setup in any lighting installation.



DGD-DMX-DALI
DGD-DALI-DMX and DGD-DMX-DALI are signal converters of from DALI bus toDMX512 bus protocol and viceversa. Both equipped with a local command (push button) as master control for outputbus in the case of missing input bus.



DMX TO ANALOG 0/1-10V



MCMP Multi Control Module Push is a 1-channel Multi Control Module for operation of 0/1-10Vdc units in bus systems. It provides all units that have 0/1-10Vdc regulation (active control input) with push dimmer function and advanced bus functions. Designed to fit in a junction box, for simple installation.
Control inputs: Controlled by one or more of pushbuttons, DALI or DMX512.Outputs: 0-10V or 1-10V with bistable relay.
MCMP remembers the latest settings and levels after a power outage.

Common data
Designation MCMP
Part number V-400100CMCMP
Input 220-240Vac
Power consumption (230V) 1W
Primary maximum breaking power (230V) 10A
Output 0/1-10V control range 0-10V/1-10V +-40mV
Output minimum voltage Isink < 10mA: VOUT , min = 13mV I sink > 10mA: VOUT , min = Isink * 1,36
Output 0/1-10V max capacity 50mA
Control types DALI, DMX, Pushbutton
Size (LxWxH) Ø57x22 mm
Weight 77 g
Housing Self-extinguishing thermoplastic
Colour White
Degree of protection IP20 (for indoor use)
DALI
Address area Address: 0-63
Group: 0-15 (0-F hexa decimal)
Supported Standards IEC_62386-101, IEC_62386-102, IEC_62386-206 (Device type 5)
Support for external 'type 5' unit with DALI
commands
Set the output area till 0-10V
Output signal curve 1-10V: 35mV / step, 255 step; 0-10V: 39mV / step, 255 step
DMX
Address Area 1-512
Output signal curve 1-10V: 35mV / step, 255 step; 0-10V: 39mV / step, 255 step
Push button Short press: on / off; Long press: dim up / down
Output curve 1-10V: 2,25V / s; 0-10V: 2,5V / s

DMX TO PWM

FEATURES DLP - 4 CHANNELS

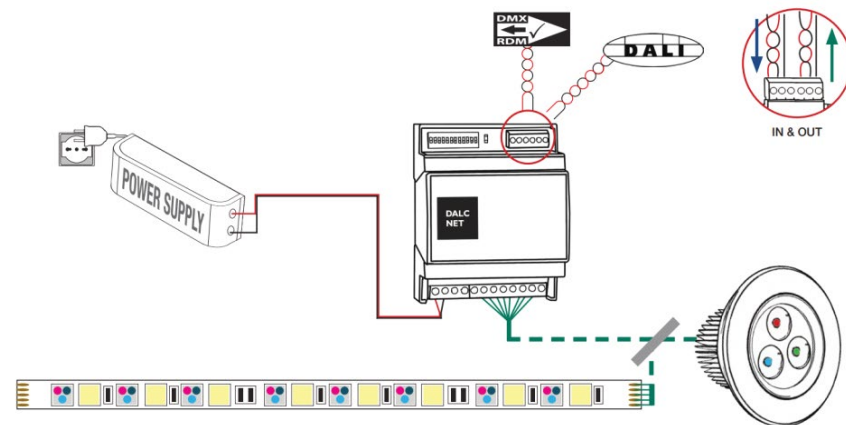


BUS+DIMMER+FADER+DRIVER
DC Input: 12-24 VDC
BUS Command: DALI or DMX512-RDM; Isolated BUS Input
Control: White, Tunable white, RGB or RGBW
Address defined by BUS or DIP Switch
BUS IN and BUS OUT for an easy BUS cabling
Voltage Outputs for R loads
Adjusting the brightness up to completed off
Extended temperature range min -40°C max +60°C
Typical efficiency> 95%
100% functional test - 5 years warranty

DECODER 3 CHANNEL



DC Input: 12-48 VDC
Signal input: DMX512; Isolated BUS Input
Control: White, RGB
Address defined by BUS or DIP Switch
Adjusting the brightness up to completed off
Extended temperature range min -40°C max +60°C
Typical efficiency> 95%
100% functional test - 5 years warranty



DMX TO TRIAC

FEATURES DAC 230 AC 4 CH



AC DIMMER
Input: 230V AC
Output: 230V AC
BUS Command: DALI / DMX512-RDM
Local Command: N.O. Push-button, 0-10V, 1-10V, Potentiometer
Dimming of dimmable lamp
Four Channels Dimmer output phase-out
Trailing edge dimming method for R-C loads
Minimum level settings
Out Power 200W max/ch
Extended temperature range min -40°C max +60°C
100% functional test - 5 years warranty

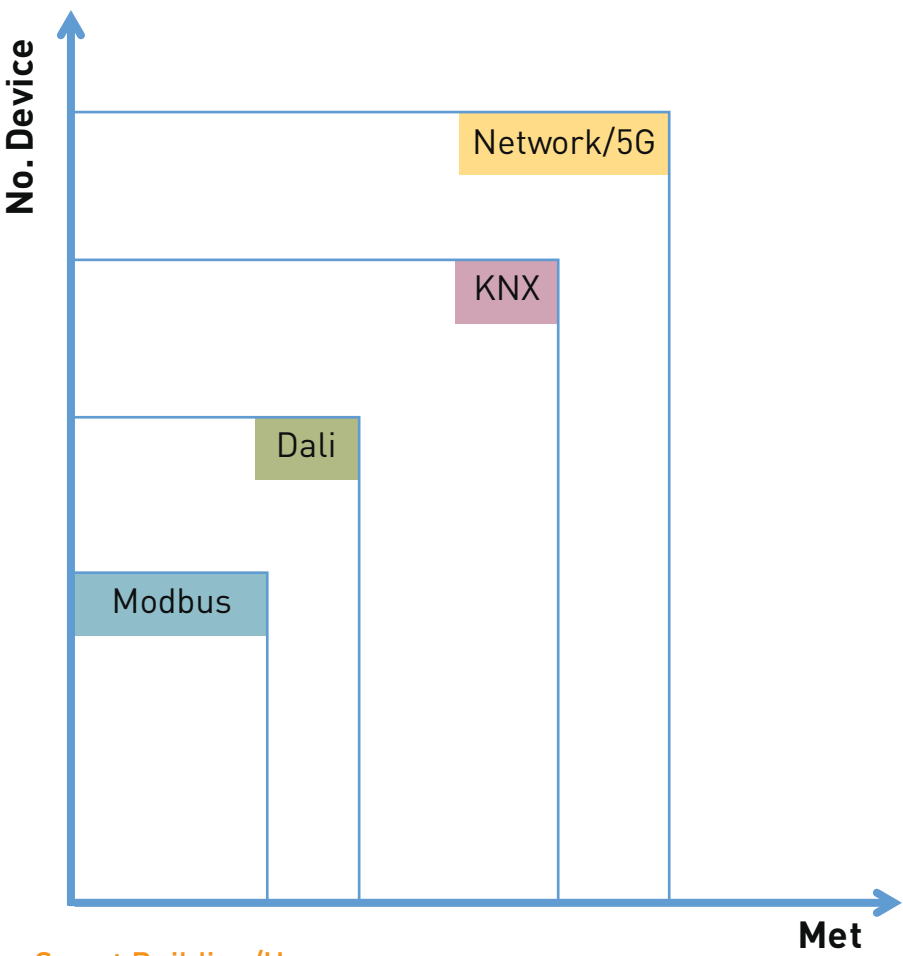
FEATURES DAC 230 AC 8 CH



AC DIMME
RInput: 230V AC
Output: 230V AC
BUS Command: DALI / DMX512-RDM
Dimming of dimmable lamp
Eight Channels Dimmer output phase-out
Trailing edge dimming method for R-C loads
Minimum level settings
Out Power 200W max/ch
Extended temperature range min -40°C max +60°C
100% functional test - 5 years warranty

Chart Management Control Systems

Cable Bus Control for Smart Building/Home



Radio control for Smart Building/Home

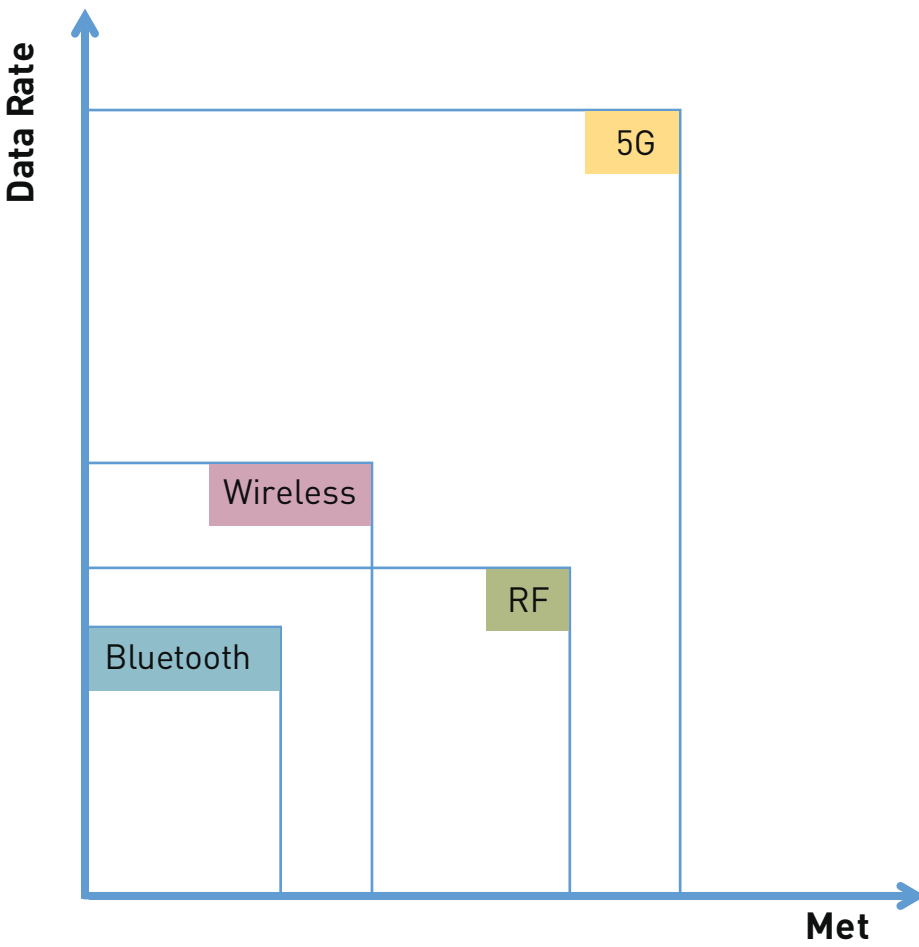
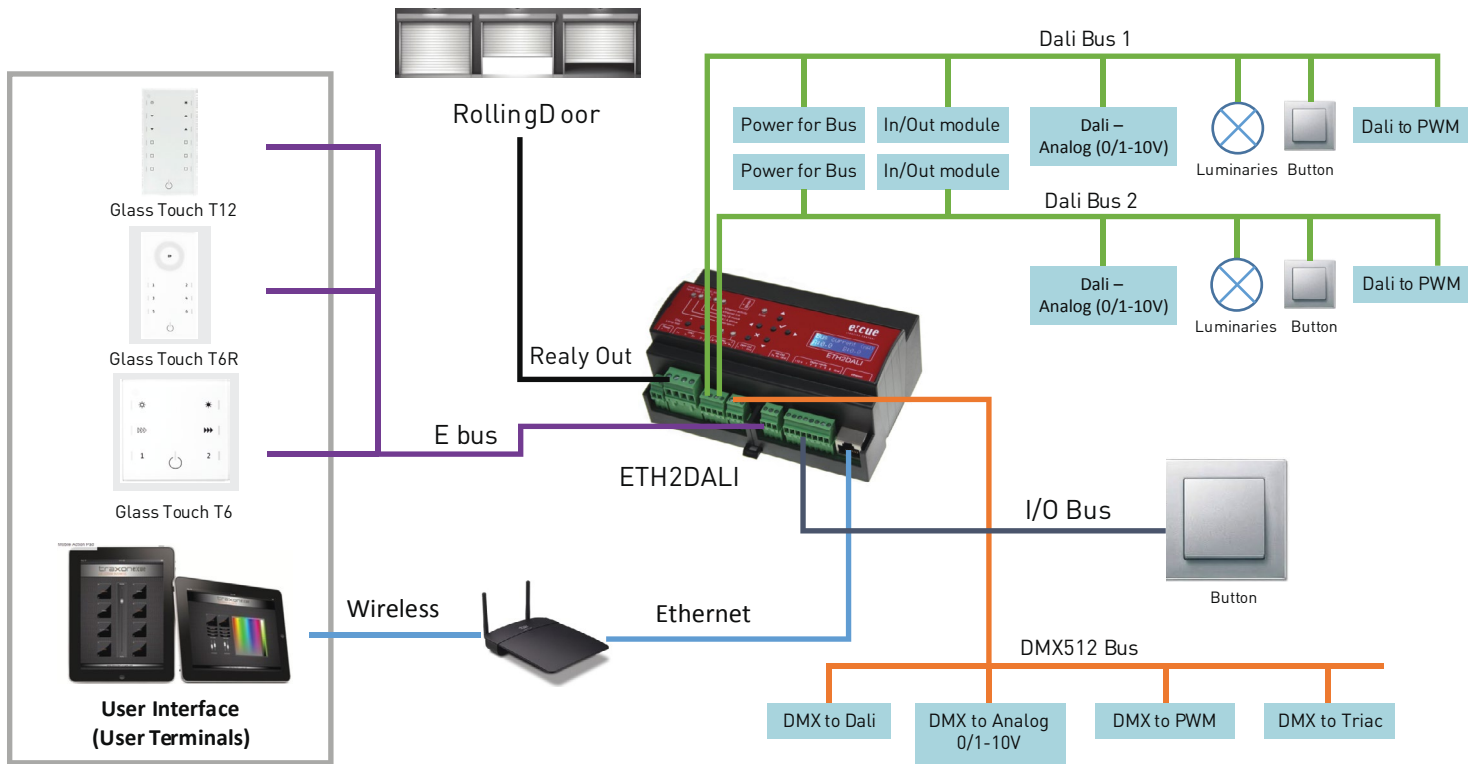


Diagram for SmartHome Control by on Traxon technologies (OSRAM) of Germany



ETH2DALI



ETH2DALI is a flexible and scalable DALI control engine for both functional and dynamic lighting. Supporting both DALI and DMX512 connectivity, ETH2DALI is a versatile control engine that can be operated in standalone mode or in online mode with the e:cue Lighting Application Suite (LAS). The engine supports all OSRAM standard DALI devices (e.g. sensors and interfaces), as well as ballasts from third party manufacturers. Taking the best out of the DALI world and adding the DMX512 capabilities, ETH2DALI bridges the gap between general lighting and creative lighting effects. Remote control is easy via the intuitive and fully customizable Action Pad App and LAS 7.0. Scalable for additional DMX universes, it can be integrated with external systems such as Building Management System (BMS). ETH2DALI is the ideal lighting control system for applications such as retail shops, offices, and hospitality projects.

Key Features

- Two DALI universes to control up to 128 DALI devices per ETH2DALI
- One DMX512 universe (various DMX512 Universes can be added via Butler S2)
- Multiple devices can be synchronized via network connection
- RS-232 and digital inputs to integrate with external systems
- Relay outputs for additional control of external devices or adjacent systems
- Supports online & standalone mode
- Status display
- Easy Commissioning Test mode
- Integrated web server for easy network configuration and remote control of lighting shows via web browser or iOS-systems*, Android Systems*
- Internal real-time and astronomical clock with daylight saving
- Data stored on micro SD Card* iOS and iTunes are trademarks of Apple Inc., registered in the U.S. and other countries. Android and Google Play are trademarks of Google Inc.

Diagram for Building/home Control by Gira of Germany

A brief introduction to KNX

The demand for comfort and versatility in the management of heating, lighting and access control systems for a family home as well as an office complex is growing. At the same time, the efficient use of energy is becoming increasingly important. People want a comfortable, sustainable and safe place to live and work and that's where automation jumps in.

However, more convenience and safety together with lower energy consumption can only be achieved by intelligent control and monitoring of all products involved. This is a true challenge as it implies more wiring, running from the sensors and actuators to the control and monitoring centres. For professionals, such a mass of wiring also means higher design and installation efforts, increased fire risk and soaring costs. That's where KNX jumps in!

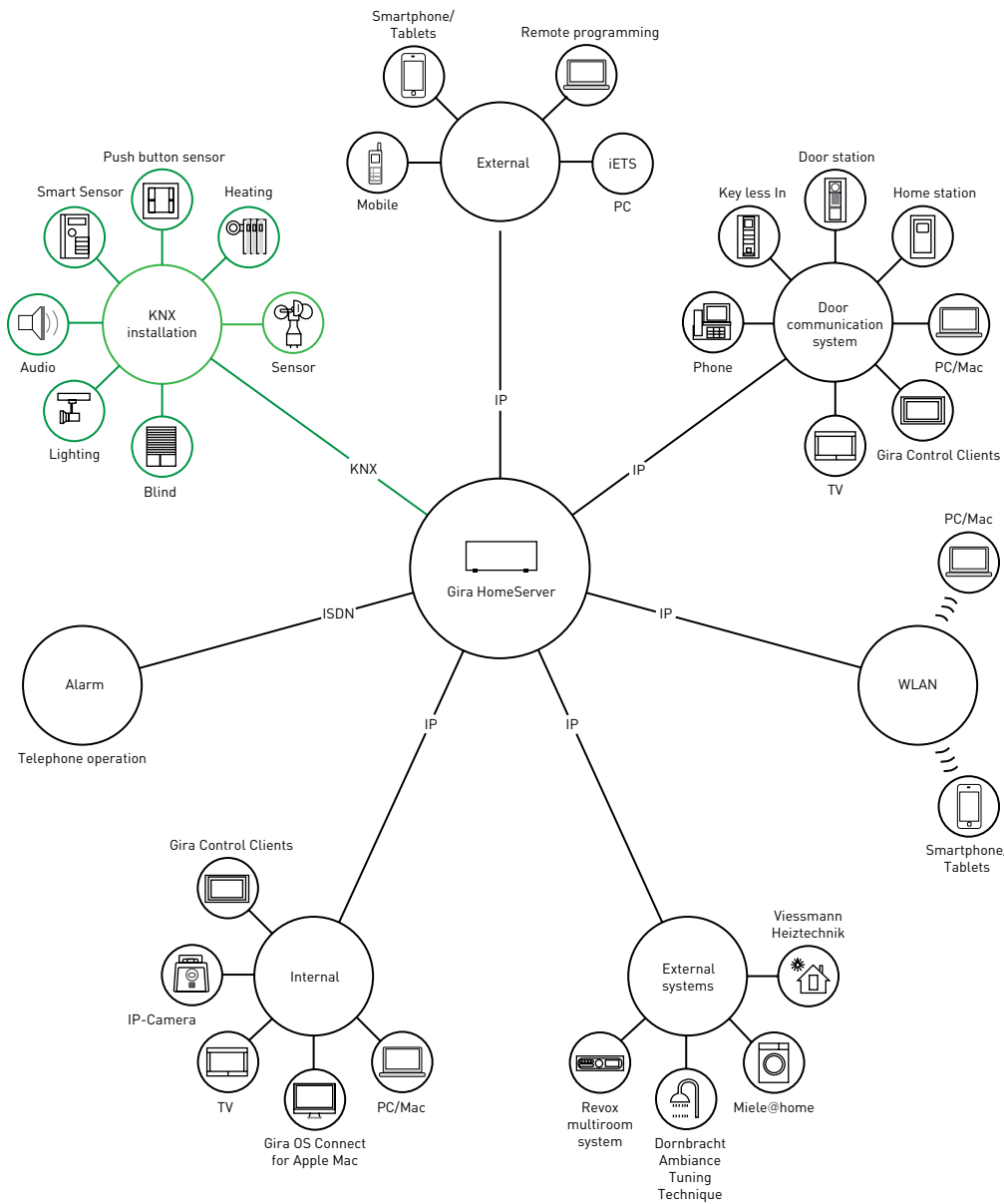
Realizing the automation dream

Automation doesn't have to be difficult. It simply requires a system that does away with the problems of isolated devices by ensuring that all components communicate via one common language. The kind of device you want to use doesn't matter anymore.

Whether you want to control lighting, shutters, security systems, energy management, heating, ventilation, air-conditioning systems, signaling and monitoring systems, interfaces to service and building control systems, remote control, audio and video control,... All these functions work via an uniform system. This is called the principle of interworking. This is home and building control made easy. This is KNX.

Maximized flexibility and personalization

The possibilities of creating a smart home or office are numerous. Keep it simple with light control or go all the way and connect different sorts of devices. KNX takes automation and personalization to the next level.





A DALI network consists of a controller, a power supply (which may be built into the controller) and one or more slave devices (e.g., electrical ballasts, LED drivers and dimmers) that have DALI interfaces. The controller can monitor and control each device by means of a bi-directional data exchange. The DALI protocol permits devices to be individually addressed and it also allows multiple devices to be addressed simultaneously via multicast and broadcast messages.[3]

Each device is assigned a unique static address in the numeric range 0 to 63, making possible up to 64 devices in a basic system. Addresses may be arbitrarily assigned and need not be contiguous. DALI gateways can be used to implement systems that have more than 64 devices. Data is transferred between controller and devices by means of an asynchronous, half-duplex, serial protocol over a two-wire bus, with a fixed data transfer rate of 1200 bit/s.

A single pair of wires comprise the bus used for communication to all devices on a DALI network. The network can be arranged in a bus or star topology, or a combination of these. DALI is not classified as SELV (Separated Extra Low Voltage) and therefore its wiring may be run next to mains cables or within a multi-core cable which includes mains power. Data is transmitted using high voltages (0±4.5 V for “0” and 16±6.5 V for “1”[4]:19) enabling reliable communications in the presence of significant electrical noise.

The bus is used for both signal and power. A power supply provides 250 mA at 24 V DC; each device may draw up to 2 mA. [4]:20,35 While many devices are line-powered, low-power devices such as motion detectors may be powered directly from the DALI bus. Each device has a bridge rectifier on its input so it is polarity-insensitive. The bus is a [[wired-AND] configuration where signals are sent by briefly shorting the bus to a low voltage level.

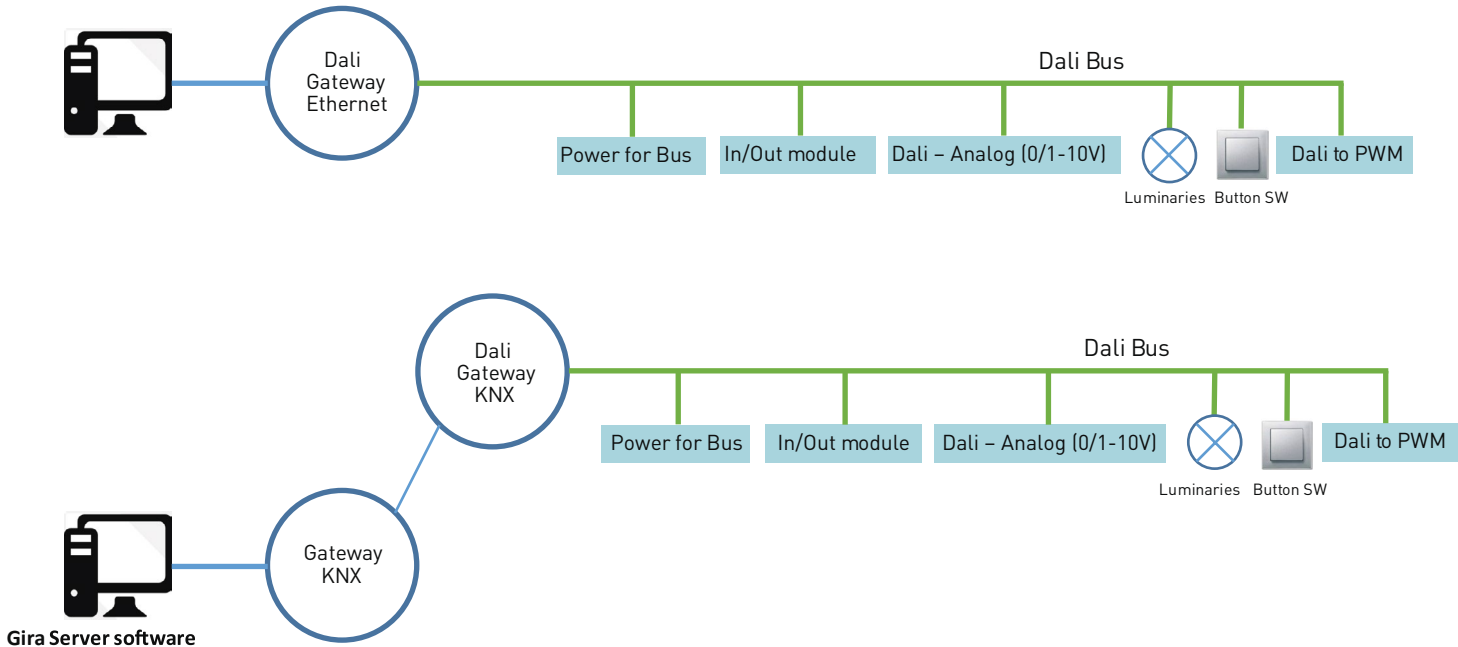
The bus is also defined to be polarity-insensitive, allowing DALI wires can be connected to a device without regard for polarity (the voltage specification allows plenty of headroom for a bridge rectifier in each slave), and the speed is kept low so no termination resistors are required.[4]:21

The network cable is required to be mains-rated, with 600 V isolation and a maximum drop of 2 volts along the cable.[4]:19 (The required cable size depends on the length of the bus, up to a maximum of 300 m with 1.5 mm² (15.4 AWG) conductors.) Each bit is sent Manchester coded (half a bit time of the data bit, followed by half a bit time of its complement), so that power is present for half of each bit time. When the bus is idle, it is high voltage all the time, which is not the same as a “0” or a “1” data bit. Frames begin with a “0” start bit, then 8 to 16 data bits in msbit-first order (standard RS-232 is lsbit-first), followed by a minimum two bit times of idle.

Each device on a DALI network can be individually addressed, unlike DSI and 0–10V devices. Consequently, DALI networks use fewer wires than DSI or 0–10V systems.

Some devices (e.g., HF ballasts) are mains powered, and only have functional isolation between the mains and the DALI control. This means that even though the DALI control cable operates at ELV potential, it must be treated as if it were at mains potential.

DALI lighting levels are specified by an 8-bit value, where 0 means off, 1 means 0.1% of full brightness, 254 means full brightness, and other values are logarithmically interpolated between, giving a 2.77% increase per step. That is, a (non-zero) control byte x denotes a power level of 103(x–254)/253.



Dali Gateway Ethernet



PDEG
Ethernet Gateway



Software on Mobile



Software on Server

Flexible Ethernet integration

The Philips Dynalite PDEG provides a multipurpose Ethernet connection to a Philips lighting control system. It supports access to the lighting system via a dedicated Philips app as well as providing a web interface delivering access to the inbuilt timeclock and schedule editor functions. It provides bridging functionality between Ethernet backbone and the DyNet fieldbus devices.

- Large storage capacity
 - The device stores large project files internally, which apps use to automatically configure their settings. This saves configuration time and ensures accuracy for phone and tablet control.
- Built-in web server
 - Provides control and status via Common Gateway Interface (CGI) protocol. Allows authenticated users to edit and check system settings via the Network Hardware Checker and System Roll Call tools.
- Network routing
 - Routing functionality such as address offset and message filtering and translation
- Scheduled event management
 - Inbuilt timeclock, schedule manager, sunrise/sunset tracking and automatic daylight saving adjustment allow the user to manage operation and task scheduling without advanced technical knowledge.
- Powerful custom task engine
 - Allows users or third-party systems to run macros, such as 'After Hours', 'Shut Down', 'Welcome' and more.
- Advanced interoperability
 - Supports management of Philips Dynalite systems, Philips PoE fittings, and Philips Hue lamps and bridges, on a single system
- Third party integration
 - Capable of direct communication with specialized hospitality and building automation systems such as Ving-Card Elsafe, CoolAutomation, Oracle Fidelio, and others.
- Day Rhythm*
 - Supports up to five color temperature curves to simulate the intensity and color temperature of natural daylight over the course of a day. Different curves can be assigned to different seasons or specific days as required.

Dali Gateway KNX



The Gira KNX DALI gateway is the interface between the KNX installation and the DALI lighting system. It enables switching and dimming of up to 64 DALI devices in a maximum of 32 groups via the KNX system. The DALI light groups can be switched on and off or dimmed by means of manual actuation on the device parallel to the KNX, even without bus voltage or in the unprogrammed state.

Product features

- 16 light scenes
- DALI device state can be read out via KNX, e.g. brightness or light error
- Manual actuation of the DALI groups possible
- Restraint
- Feedback of switching condition and brightness level in both bus and manual operation
- Central switching function
- Block function for each DALI group
- Separate switch-on and switch-off delay
- Stairway lighting switch with advance warning function
- DALI start-up with ETS plug-in
- Short-circuit protection - overvoltage protection
- Overload protection
- Individual DALI device can be replaced during operation without software
- Mounting on top-hat rail in accordance with DIN EN 60715

Analog 0/1-10V Topology

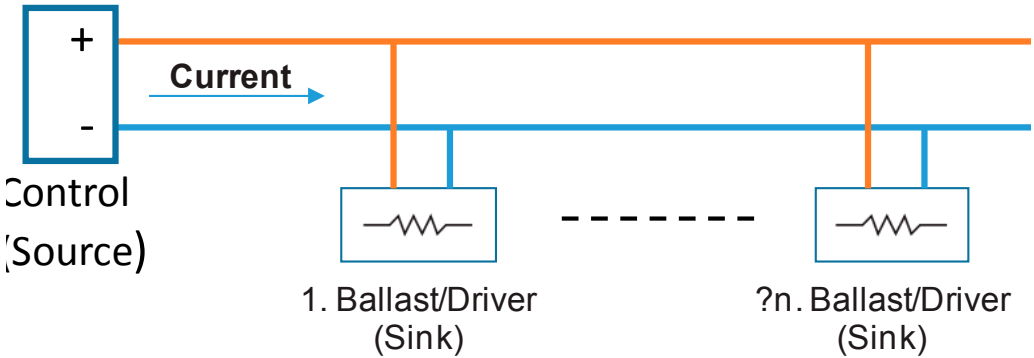
0-10 V topology is a common control topology that can be found all across the lighting industry. It was originally developed for control of fluorescent ballasts, but in the growing market of LEDs, it has become one of common control topologies. While there are some standard details to how 0-10 V works as a topology, there are many details that can affect the quality of the end solution.

0-10 V topology is often looked at as an open topology and that 0-10 V products work together without any issues

0-10 V mA Rating

Directly related to the previous notes on sink vs. source, every 0-10 V device has a rating for how much current (in mA) that it sources or sinks. In addition to stating that the ballast shall source the current, the IECR 60929 standard dictates a minimum ballast source current of 10 μA and a maximum of 2 mA. Not all ballasts/drivers follow this standard (2 mA maximum), but it can be used as an approximation if no information can be determined about the ballast/driver being used.

Knowing the sinking/sourcing capabilities of the control and the ballast/driver are necessary to determine the maximum number of ballasts/drivers that can be controlled by a single control circuit. The maximum number of ballasts/drivers can be found by taking the sink capability of the control and dividing by the source current of each ballast/driver. The mA rating and the relay rating are the two limiting factors for how many ballasts/drivers can be used with a control. With LED lamps, it is very common for the mA rating to be the limiting factor.



How many fixtures can I put on a 0-10 V control circuit?

There are three limiting factors that come into play when determining how many ballasts/drivers you can have on a 0-10 V circuit.

- 1. Steady state current
- 2. Inrush current
- 3. The mA sink/source on the 0-10 V circuit

The application needs to be within the wattage rating of the 0-10 V control, within the 0-10 V current sink/source capability, and able to handle the inrush of the loads to be connected. If the capabilities of the control (found in Table 1) and the specs of the ballast/driver are known, the maximum number of ballasts/drivers on a circuit can be determined.



How far can I run a low-voltage 0-10 V circuit?

There are a number of variables that affect how long a 0-10 V circuit can be run. Some of these variables include: the number of ballasts/drivers, the source rating of each ballast/driver, the gauge of the wire, any noise that might be experienced by the wire run, and what voltage drop will allow the control to maintain a minimum light level. If the 0-10 V circuit is going to be run as Class 2 wiring (assuming no significant noise), a standard voltage drop equation can be calculated to find out the voltage drop for a given distance. Due to the number of variables that exist, Lutron cannot provide a number that can be used in all applications. The IECR 60929 Annex E standard states that at 1 V, the ballast/driver should be at a minimum light level. Since the ballast/driver is the source, that means the voltage will drop along the wire and be lower at the control. For example, if the control is capable of pulling the voltage down to 0.7 V and the voltage drop along the wire is 0.3 V, the voltage at the ballast/driver will be 1 V. As a general rule, keeping the voltage drop to 0.3 V or lower is a good practice. The total voltage drop for a wire run can be calculated using the following equation:

$Vd = R \times d \times n \times I$

“Vd” is the voltage drop, “R” is the resistance of the wire per foot, “d” is the distance of the wire run, “n” is the number of ballasts/drivers, and “I” is the current (A) sourced by each ballast/driver. If the equation is re-arranged to solve for distance, it becomes:

$d = \frac{Vd}{R \times n \times I}$

This equation provides the maximum distance based on known information. “Vd” is the maximum allowable voltage drop that will maintain the minimum (1 V) and maximum (10 V) light levels as defined in IECR 60929 Annex E. Unfortunately, the maximum output voltage of the ballast/driver and the minimum voltage of the control are usually unknown. Therefore, minimizing the voltage drop as much as possible provides the best opportunity to achieve both the minimum and maximum light levels. Using 0.3 V for “Vd” is good practice in the absence of additional information. Taking into account the resistance of the wire, the total number of ballasts/drivers, the current sourced by each ballast/driver, and the allowable voltage drop, the maximum distance run of a given circuit can be approximated.

Wire Gauge	Maximum EcoSystem Digital Loop Wire Length
12 AWG (4.0 mm ²)	2200 ft (671 m)
14 AWG (2.5 mm ²)	1400 ft (427 m)
16 AWG (1.5 mm ²)	900 ft (275 m)
18 AWG (1.0 mm ²)	570 ft (175 m)

Protection for LED lighting

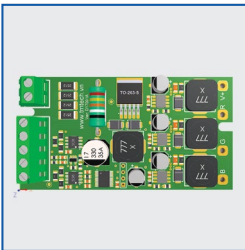
When lighting loads are turned on, there is a momentary spike in current running through the load that is much higher than the steady state current. For incandescent loads, that inrush current is fairly standard for various wattages and bulb sizes and is accounted for in controls based on the steady state power rating. This means that any controller that is rated for 600 W of incandescent load is designed to handle the 10× inrush current that is known to come along with 600 W of the incandescent load. Due to the capacitive nature of LED loads, the inrush current is not a standard known for each steady state power rating. The initial charging of the capacitors, which depends on the LED driver design, can require a huge amount of current, sometimes 100-300× the steady state current. This is drastically different than the inrush current of incandescent lamps which the control industry is accustomed to handling. If this is not accounted for properly when adding loads to a circuit, the huge inrush has the potential to cause damage to relays and cause them to fail quicker than their expected/rated life. This issue can also cause nuisance tripping of circuit breakers. The NEMAR 410-2011 standard attempts to create a common inrush value that control companies can account for in the design of their products. If all ballasts/drivers and controls in an application are specified to be NEMAR 410-2011 compliant, then the inrush current issue is no longer a concern.

How to make protection circuit/line LED (for M&E Engineering & installation):

- a, LED Lighting Surge Protection: <http://www.littelfuse.com/products/surge-protection-module/led-lighting-surge-protection-modules.aspx>
- b, Inrush Current Limiters: <http://www.littelfuse.com/products/temperature-sensors/power-thermistors/inrush-current-limiting-power-thermistors/st.aspx>
- c, Varistors: <http://www.littelfuse.com/products/varistors.aspx>

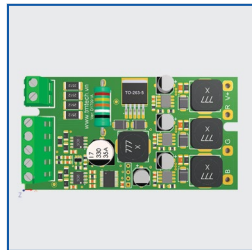
DMX512 DECODER

DDRIVER 2.1



Input Voltage: 12-40VDC
Number Channels: 3 Channels
Type Driver: Constant Current (Buck Topology)
Input Signal: DMX512
Power Output: Contact us to Set Current (350mA, 500mA, 700mA, 1500mA)
Control: 1, Curve; 2, 16bits
Protection: 1, Inrush Current; 2, Sock Energy; 3, Isolation 2KV
Type IP: Open Board

D17091A



Input Voltage: 12-60VDC
Number Channels: 3 Channels
Type Driver: Constant Current (Buck Topology)
Common Anode
Input Signal: DMX512
Power Output: Contact us to Set Current (350mA, 500mA, 700mA, 1200mA)
Control: 1, Curve; 2, 16bits
Protection: 1, Inrush Current; 2, Sock Energy; 3, Isolation 2KV
Type IP: Open Board

DECODER 3 CHANNEL



Input Voltage: 12-48VDC
Number Channels: 3 Channels
Type Driver: Constant Voltage
Input Signal: DMX512
Power Output: 6A/Ch
Control: 1, Curve 2, 16bits
Protection: 1, Inrush Current; 2, Sock Energy; 3, Isolation 2KV
IP Protection: IP20

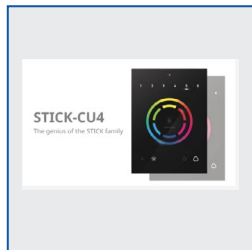
SMART & MEDIA CONTROL LIGHTING

STICK-KE1



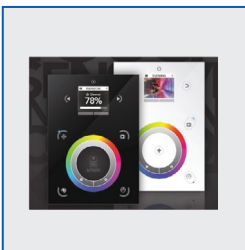
Input Power: 6-9V DC 0.6A
Output Protocol: DMX512 (x2)
Programmability: PC, Mac, Tablet, Smartphone
Available Colors: Black / White
Connections: USB, Ethernet, RS232, Clock, 8 dry contact ports, Output Relay
Memory: microSD card
Temperature: -10 °C to 50 °C
Mounting: Single or double gang wall socket
Dimentions: 168x128x11.5mm; Weight: 200g
Standards: EC, EMC, ROHS, ETL

STICK-CU4



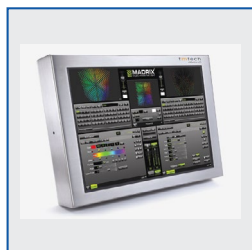
Input Power: 5-10V DC 0.6A
Output Protocol: DMX512
Programmability: PC, Mac
Available Colors: Black
Connections: USB, 8 dry contact ports
Memory: In-built flash
Temperature: -10 °C - 45 °C
Mounting: Single or double-gang wall socket
Dimentions: 146x106x10mm; Weight: 200g
Standards: EC, EMC, ROHS

STICK-DE3



Input Power: 6-7V DC 0.6A
Output Protocol: DMX512 (x2)
Programmability: PC, Mac, Tablet, Smartphone
Available Colors: Black / White
Connections: USB, Ethernet, RS232, Clock, 8 dry contact ports, 5v Output Relay
Memory: microSD (32Gb Max)
Temperature Battery: -10 °C to 45 °C LIR2032
Mounting: Single or double gang wall socket
Dimentions: 146x106x11mm; Weight: 247g
Standards: EC, EMC, ROHS, ETL

XMASTRO V13



Display size: 19
Resolution: 1280x1024
Touchscreen: Resistive
Max. R.A.M.: 8 GB
Drive: SSD - 100GB
Software License: Madrix
Material: Steel / aluminum
Dimensions (WxHxD): 495 mm x 384 mm x 90 mm
User Interface: Touch HMI
Maximum port number: 256 ports

BUTLER PRO



Dimensions (WxHxD): 482 x 44 x 142 mm / 19 x 1.7 x 5.6 in. (incl. mounting brackets)
Weight: 1.2 kg / 2.65 lbs
Power: 100 to 240 V AC, 50/60 Hz
Power consumption: 20W max.
Protection class: IP20
Materials: Aluminium, Polyamide
Mounting: in 19-inch standard racks, wall mountable via rotatable mounting brackets
Display: LCD display (2 x 20 characters LCD display)

BUTLER XT2



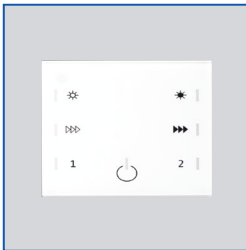
Dimensions : WxHxD177 x 60 x 75mm/ 7 x 2.4 x 3 inch
Weight kg/lbs: 0.4 / 0.88
Power supply: 12 ... 24 V DC, >= 1,3A
Environment: IP20
Housing: Aluminium
Mounting: 35 mm DIN Rail
System link: e:bus (clamp terminals)
E:net (RJ45, Ethernet)
Output: DMX (RJ45, clamp terminals)
Input: RS-232 (clamp terminals) RDM (RJ45, clamp terminals) 8 optically isolated digital inputs

ETH2DALI



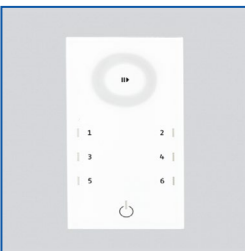
Dimensions(W x H x D): 142 x 91 x 63 mm/ 5.6 x 3.6 x 2.5 in
Weight: 280 g
Power: 24 V DC, max. 630 mA (dep. on # of DALI devices)
Power consumption: max. 15 W
Housing: PC/ABS
DALI interfaces: 2 x DALI, max. 64 devices/line
DMX interface: 1 x DMX512, max. 512 channels
Relay outputs: 2 x SPST
Digital inputs: 6 channels

GLASS TOUCH T6



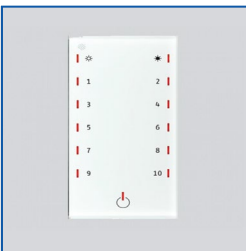
Dimensions WxHxD (mm/inches):80 x 80 x 11 / 3.15 x 3.15 x 0.43
Weight kg/lb: 0.11 kg / 0.23 lbs
Power supply: 24 VDC, 18 mA (via e:bus)
Operating / storage temp. °C/°F: 0°-40°C / 32°-104°F
Operating / storage hum: 0-80%, not condensing
Environment: IP20
Housing: Glass (surface), aluminium (housing)
Mounting: In wall mounting
System link: E: bus (screw terminals)
Input: IR

GLASS TOUCH T6R



Dimensions WxHxD (mm/inches): 80 x 160 x 11 / 3.15 x 6.3 x 0.43
Weight kg/lbs: 0.21 kg/ 0.46lbs
Power supply 24 VDC, 18 mA (via e:bus)
Operating / storage temp. °C/°F: 0°-40°C / 32°-104°F
Operating / storage hum.: 0-80% not condensing
Environment: IP20
Housing: Glass (surface), aluminium (housing)
System link: E:bus (screw terminals)
Input: IR

GLASS TOUCH T12



Dimensions WxHxD (mm/inches): 80 x 160 x 11/ 3.15 x 6.3 x 0.43
Weight kg/lbs: 0.21 kg/ 0.46lbs
Power supply: 24 VDC, 18 mA (via e:bus)
Environment: IP20
Housing: Glass (surface), aluminium (housing)
Mounting: In wall mounting
User interface: Capacitive touch sensor
System link: E:bus (screw terminals)
Input: IR

LIGHT-DRIVE ELITE

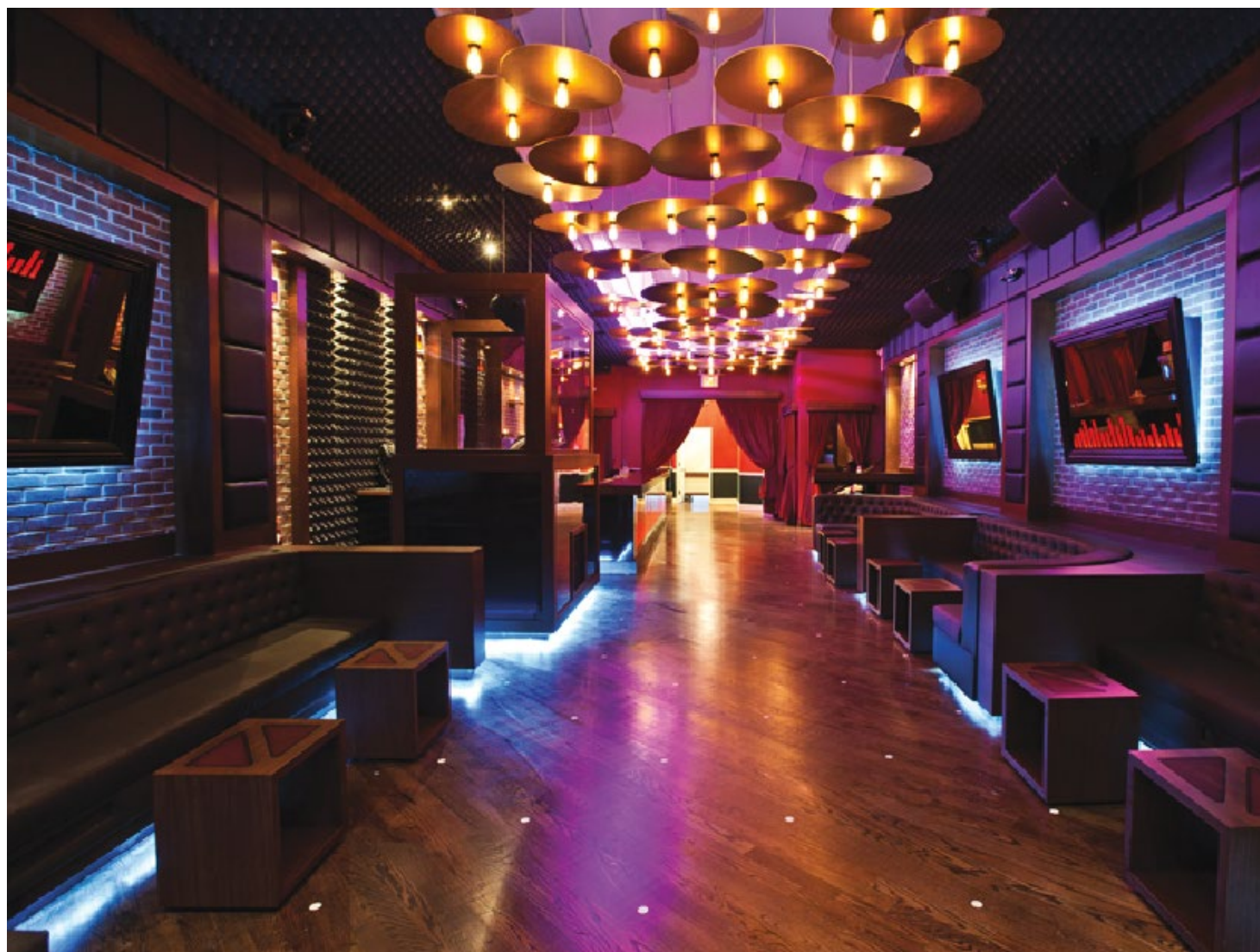


Dimensions (W x H x D): 160 x 80 x 11 mm/ 6.3 x 3.15 x 0.43 inch
Weight: 0.3 kg/0.66 lbs
Power: 24V DC, 100mA (via RJ45)
Protection class: IP20
Housing: Glass (surface), aluminium (housing)
Mounting:in-wall mounting
User interface: Capacitive touch sensor
DMX output: RJ45
Input: (RC5)

LIGHTDRIVE+



Dimensions (W x H x D): 80 x 160 x 30 mm 3.15 x 6.30 x 1.18 inch
Power supply: PoE Standard IEEE 802.3af 12 ... 24 V DC
Power consumption: max. 4W
Materials: ABS, Glass
User interfaces: 12 capacitive touch keys, 1 jog wheel
Low-side switches: 2 x 24 V, max. 4 A galvanically isolated
DMX outputs: 2 x DMX512 output
Sensors: Proximity sensors





tmtech
Lighting Manufacturer

//CONTACT US// TMtech Electronics Co., Ltd

Add: No.28, 10 Street, Linh Trung Ward, Thu Duc District, Ho Chi Minh City,VN

Tel: (+84)28.668.222.73; Hotline: (+84) 934.943.273

Email: support@tmtech.vn

Website: www.tmtech.vn