

LED LIGHTING CATALOG



INDEX - Product Overview

| Page Number | P.03 | P.05 | P.07 | P.09 |
|----------------------|--------------------------------------|-----------------|--------------------------|-----------------|
| Brief Description | LED Work Light | LED Work Light | LED Work Light | LED Work Light |
| Model | CLA-A | CWA | CLK / CLK-A | СМК |
| Size (mm) | 100 / 200 / 300 / 600 / 900 /1200 | 300 / 600 / 900 | 200 / 300 / 600 | 200 / 300 / 600 |
| Conformity Standards | CE / RoHS / UL | CE / RoHS / UL | CE / RoHS / UL | CE / RoHS / UL |
| IP/NEMA | IP66 / IP67 / IP69K | IP65 | IP66G / IP67G / IP69K | IP66G / IP67G |
| Mounting Location | Indoor | Indoor | Indoor | Indoor |
| Mounting Direction | All | All | All | All |
| Ambient Temperature | -40°C — +60°C | −30°C — +60°C | -40°C — +60°C | −10°C — +50°C |
| Luminous Color | Daylight / Amber | Daylight | Daylight / Natural white | Daylight |

| | | C Pe | |
|----------------------|-----------------------|------------------|----------------------|
| Page Number | P.11 | P.13 | P.14 |
| Brief Description | LED Work Light | LED Work Light | LED Work Light |
| Model | CLN-A | CLE-24 | CWF |
| Size (mm) | □85 | Ф82 | 300 / 600 / 900 |
| Conformity Standards | CE / RoHS / UL | CE / RoHS | CE / RoHS / UL / FCC |
| IP/NEMA | IP66G / IP67G / IP69K | IP65F | IP20 |
| Mounting Location | Indoor | Indoor / Outdoor | Indoor |
| Mounting Direction | All | All | All |
| Ambient Temperature | -40°C− +60°C | −25°C — +60°C | −20°C − +60°C |
| Luminous Color | Daylight | - | Daylight |

Protection Rating Explanation

The International Protection grade code (IP) is followed by two numbers, with the first number as the symbol to represent the protection classification for human body and solid foreign matter from a number of 0 to 6; the second number as the symbol to represent the degree of protection against permeation of water as a number from 0 to 9.

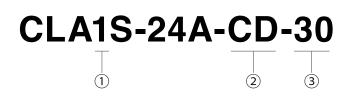
| ↓ | | | |
|--|--|--|--|
| | ode Second classification number o. Protection rating for water | Supplementary Character | |
| No protection | 0 No protection | Oil-proof type: It is not harmfully | |
| It is protection against solid foreign matter (a pole,as an example) larger than 50mm or more in diameter. | 1 It protects against water droplets falling vertically. | affected by contact of oil droplets or oil shavings from any direction. | |
| It is protection against solid foreign matter (a finger, as an example) larger than 12.5 mm or more in diameter. | 2 It protects against water droplets falling vertically, even if the product is tilted within a 15 degree angle. | G Oil resistant type: Oil drops and oily grease does not enter inside from any direction. | |
| (a tool, as an example) larger than 2.5mm or more in diameter. | 3 It protects against water sprayed from up to a vertical angle of 60 degrees. | What is IPX9K? | |
| It is protection against solid foreign matter (wire, as an example) larger than 1.0 mm or more in diameter. | 4 It protects against water splash from all directions. | IPX9K is the German DIN 40050 PART9 standard,defined as a protection that is regulated for high-temperature and high- | |
| Dust-proof type: Although completely preventing dust intrusion is impossible, the amount of dust invasion will not hinder the predetermined operation and safety of the electronic device. | 5 It protects against a water jet stream (sprayed from a nozzle in all directions). | pressurized water. Water is heated up to 80°C and then sprayed at a water pressure in the range of 80 to 100 BARs at 14 to 16 liters per minute towards the | |
| Dust resistant type: dust intrusion is completely prevented. | 6 It protects against a powerful water- jet stream (sprayed from a nozzle in all directions). | test object. The test object is between a distance of 100 to 150 mm from the nozzle and sprayed in all directions at 0, 30, 60, and 90 degrees; then | |
| * Cautionary Notes The IP rating stands for the grade of dust-proof and | 7 It protects against temporarily immersion in water. | sprayed at a horizontal angle while it is being rotated, all done for a period of 30 seconds | |
| waterproof performance of the enclosure by itself. When using our products outdoors, be sure to refer to the product specifications for each product in order to select theappropriate installation location and mounting direction. | 8 It protects against applications used in diving conditions specified by the manufacturer. | without being affected by water penetration. | |

Applications





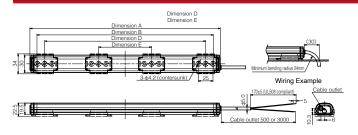
Model Number Configuration



| ① Length 1 = 100 mm 2 = 200 mm 3 = 300 mm 6 = 600 mm 9 = 900 mm 12=1200mm | 2 Luminous C CD = Daylight Y = Amber* * 300mm only |
|---|---|
|---|---|

② Luminous Color③ Cable LengthCD = DaylightBlank = 0.5mY = Amber*30 = 3.0m

Dimensions (mm)



| | Dimension A | Dimension B | Dimension D | Dimension E | Number of |
|---------|-------------|----------------------------------|-------------------------------|-------------|------------------------------------|
| Model | Full Length | Length of Illuminated Area | Recommended Mounting Pitch | | Brackets Included (SZ-310AR) |
| CLA1S- | 124 | 100 | 74 | - | 2 |
| CLA2S- | 224 | 200 | 174 | - | 2 |
| CLA3S- | 324 | 300 | 274 | - | 2 |
| CLA6S- | 624 | 600 | 574 | - | 2 |
| CLA9S- | 924 | 900 | 874 | 290 | 4 |
| CLA12S- | 1224 | 1200 | 1174 | 390 | 4 |

Specification

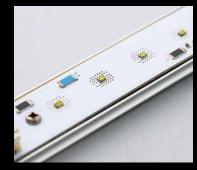
| Description | Distance | Length of Illuminated Area | | | | | | |
|----------------------------------|----------|----------------------------|-------|------------|-----------|---------|---------|---------|
| Description | Distance | 100mm | 200mm | 300mm (CD) | 300mm (Y) | 600mm | 900mm | 1200mm |
| | At 0.3m | - | - | - | - | 1,425lx | 1,575lx | 1,600lx |
| Illuminance (Center, typical) | At 0.5m | 140lx | 270lx | 400lx | 220lx | 650lx | 810lx | 890lx |
| (22, ()pical) | At 1.0m | 35lx | 70lx | 105lx | 60lx | 200lx | 280lx | 340lx |

Product List

| Model Number | Length of Illuminated Area | Luminous Color | Rated Voltage | Cable Length | Power Consumption | Mass (0.5m Cable) | Mass (3.0m Cable) |
|--------------------|-------------------------------|----------------|---------------|--------------|-------------------|----------------------|----------------------|
| CLA1S-24A-CD(-30) | 100mm | Daylight | 24V DC | 0.5m/3.0m | 2.5W | 0.08kg | 0.165kg |
| CLA2S-24A-CD(-30) | 200mm | Daylight | 24V DC | 0.5m/3.0m | 5W | 0.13kg | 0.215kg |
| CLA3S-24A-CD(-30) | 300mm | Daylight | 24V DC | 0.5m/3.0m | 5.7W | 0.18kg | 0.265kg |
| CLA3S-24A-Y | 300mm | Amber | 24V DC | 0.5m | 5.7W | 0.18kg | - |
| CLA6S-24A-CD(-30) | 600mm | Daylight | 24V DC | 0.5m/3.0m | 11.6W | 0.34kg | 0.425kg |
| CLA9S-24A-CD(-30) | 900mm | Daylight | 24V DC | 0.5m/3.0m | 17.3W | 0.5kg | 0.585kg |
| CLA12S-24A-CD(-30) | 1200mm | Daylight | 24V DC | 0.5m/3.0m | 23W | 0.66kg | 0.745kg |

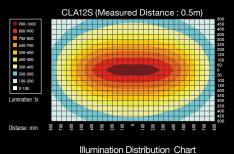
Features

Equipped with superior quality LEDs



The lifespan of the LEDs (40,000 hours) is 10 times that of a standard fluorescent light (based on LED brightness of 70%). They are also safe to use because the LEDs do not contain mercury.

Bright, uniform light



The lights are specially designed so that the beams produce a natural light that does not blind users, while still maintaining high brightness.

Highly durable construction

The housing of the CLA-A is constructed with polycarbonate resin, making its body rugged and hard to break, while also enabling it to achieve the IP69K rating. The hard material also reduces the risk of shattering and fragments getting mixed into production areas.



* Based on 2008 data accumulated from the Japanese Electric Company (CO2 Emissions per kWh at 0.355kg)

Optimal light distribution



By creating a smooth and seamless surface, the body distributes a uniformly bright light. Furthermore, the illumination range reaches a wide 120 degrees.



Brackets

Seamless body surface



SZ-310AR Rear Attachment Type (Screw Mount) Material: Polycarbonate Resin



SZ-310ARM Rear Attachment Type (Magnetic Mount) Material: Polycarbonate Resin



SZ-310AS Side Attachment Type (Screw Mount) Material: Polycarbonate Resin



SZ-310ASB Side Attachment Type (Screw Mount) Material: Polycarbonate Resin

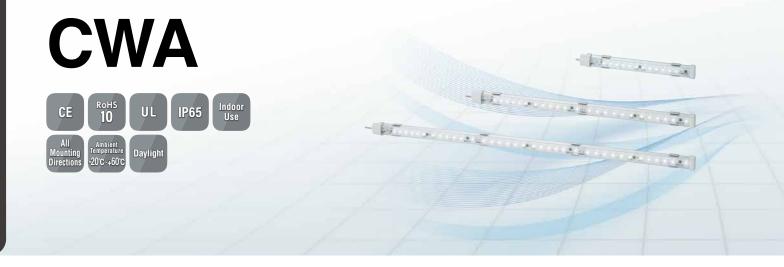


SZ-310EU* Side Attachment Type (Screw Mount) Material: Stainless Steel

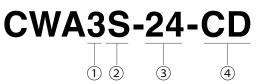
Please contact your local PATLITE represenative to confirm if this product is sold in your regio

Housing: Polycarbonate Resin

Dust Tight LED Work Light



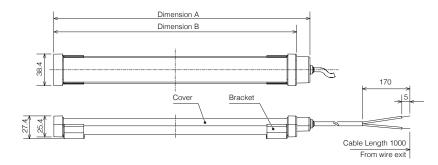
Model Number Configuration



| Length 3 = 300mm | ② Connector S = Side-exiting C |
|---|---|
| 6 = 600mm 9 = 900mm | 3 Rated Voltage 24 = 24V DC |
| | |

e-exiting Cable CD = Daylight

Dimensions (mm)



| Model Number | Dimension A | Dimension B |
|--------------|-------------|-------------|
| CWA3S-24-CD | 315.5mm | 300mm |
| CWA6S-24-CD | 621.0mm | 600mm |
| CWA9S-24-CD | 916.5mm | 900mm |

Specification

| Deservition | Length | | | | |
|------------------------------------|--------|-------|-------|--|--|
| Description | 300mm | 600mm | 900mm | | |
| Illuminance (@1m, center, typical) | 110lx | 220lx | 330lx | | |

Product List

| Model Number | Rated Voltage | Luminous Color | Power Consumption | Mass |
|--------------|---------------|----------------|-------------------|---------|
| CWA3S-24-CD | 24V DC | Daylight | 5W | 0.215kg |
| CWA6S-24-CD | 24V DC | Daylight | 10W | 0.37kg |
| CWA9S-24-CD | 24V DC | Daylight | 15W | 0.53kg |

| Features | | | |
|---|--|---|---|
| Line up | | | |
| 6500K IP65 | Highly-relia | able LED chips are used | |
| L : 900mm | | B AND | - 10 ⁸ ml - 1 - 18 |
| L : 600mm | | THE BOARD | |
| L : 300mm | | | |
| Cost-efficient Energy 82.7% | Eco-friendly C02 Emissions 80.7% | Long Life Lifespan | Less Heating |
| Based on 10 hrs. per day for 365 days | Based on 10 hrs. per day for 365 days | times more | Beasured 1 hr. after lighting |
| Annai Power Consumption 100V20W Flourescent CWA LED Light Bar | 31kg Consumption Consumption Consumption Consumption Consumption Consumption Consumption Consumption Consumption Flourescent | 4,000 - 13,000 Hrs. Conventional Flourescent CWA LED Light Bar | 60°C A Room Temperature A Room Temperature A Room Temperature A Room Temperature A Room Temperature CLA LED Light Bar |

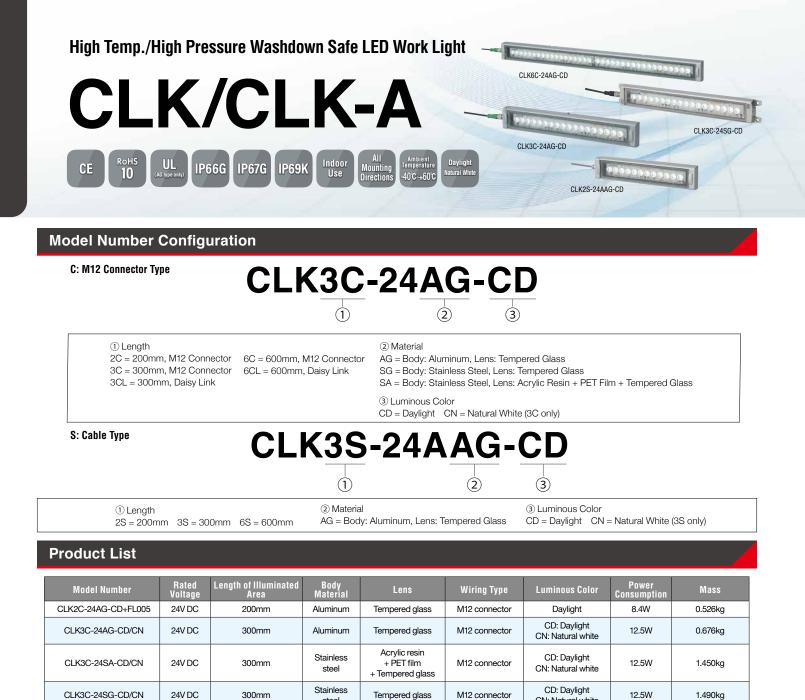
Brackets

Mounting Brackets



Holding Brackets





| | CLK6S-24AAG-CD |
|---|----------------|
| | |
| S | pecification |

CLK3CL-24AG-CD

CLK3CL-24SA-CD

CLK3CL-24SG-CD

CLK6C-24AG-CD

CLK6CL-24AG-CD

CLK2S-24AAG-CD

CLK3S-24AAG-CD/CN

24V DC

300mm

300mm

300mm

600mm

600mm

200mm

300mm

600mm

| Description | Distance | Lum | inous Segmen | ment Length Description Distance Luminous Segment Length | | Description | | t Length | | |
|----------------------------------|-----------|-------|--------------|--|--|----------------------------------|----------|----------|-------|-------|
| Description | DISTAILCE | 200mm | 300mm | 600mm | | Description | DISTUILE | 200mm | 300mm | 600mm |
| Illuminance (Center, typical) | At 1.0m | 820lx | 1,200lx | 2,100lx | | Illuminance (Center, typical) | At 2.0m | 200lx | 300lx | 580lx |

Tempered glass

Acrylic resin

+ PET film

+ Tempered glass

CN: Natural white

Daylight

Daylight

Daylight

Daylight

Daylight

Daylight

CD: Daylight

CN: Natural white

Daylight

12.5W

12.5W

12.5W

25W

25W

8.4W

12.5W

25W

0.676kg

1.450kg

1.490kg

1.222kg

1.222kg

0.526kg

0.676kg

1.222kg

M12 connector

Daisy link

M12 connector

Daisy link

M12 connector

Daisy link

M12 connector

M12 connector

Daisy link

0.5m cable

0.5m cable

0.5m cable

steel

Aluminum

Stainless

steel

Stainless

steel

Aluminum

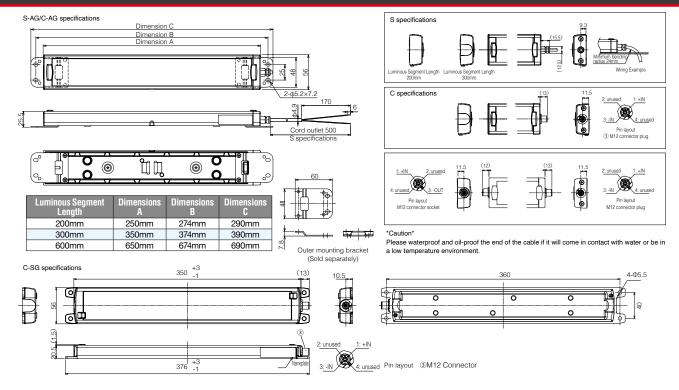
Aluminum

Aluminum

Aluminum

Aluminum

Dimensions (mm)



Features

Durable material Aluminum Body

P67G achine Tooling Equipment

Slim profile Angled Body & Flat Surface



The angled body prevents accumulation of debris and help water/oil roll off the surface. The smooth lens enables optimal light emission and easy cleaning.

P670

Chemical

Medicine

Stainless Steel Body

Food

Superior brightness and light distribution

Yellow Ring Reduction



The specially designed "micro-array lens" helps to even out light refraction and reduce "yellow rings" which disrupt uniform illumination.

Micro-array Lens

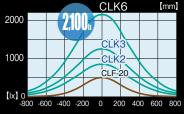


Helps reduce blinding light New "Micro-array" Lens **Conventional Lens**









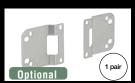
The design of the Micro-array Lens conforms to the Photobiological Safety of Lamps and Lamp Systems (Compliance: EN62471-2) in the Exempt Risk Group, which verifies that there is no immediate retina damage.

Brackets





SZ-320KS Swivel bracket Material: Cold rolled stainless steel plate (SUS304)



CLK-001 Outer mounting bracket Material: Cold rolled

stainless steel plate (SUS304)

LED Work Light



Model Number Configuration

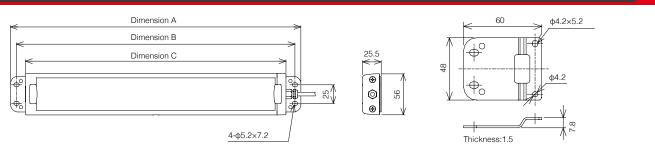


| Length | |
|----------------------------|--|
| 2 = 200mm | |
| 3 = 300mm | |
| 6 = 600 mm | |
| | |

24 = 24V DC

② Connector Type
 ③ Luminous Color
 S = Side-exiting Cable
 ③ Rated Voltage

Dimensions (mm)



| Model Number | Dimension A | Dimension B | Dimension C |
|--------------|----------------|----------------|-------------|
| mouer number | Overall Length | Mounting Pitch | Body Length |
| CWK2S-24-CD | 290mm | 274mm | 250mm |
| CWK3S-24-CD | 390mm | 374mm | 350mm |
| CWK6S-24-CD | 690mm | 674mm | 650mm |

Brackets



SZ-320KS Swivel bracket Material:Cold rolled stainless steel plate (SUS304)

Specification

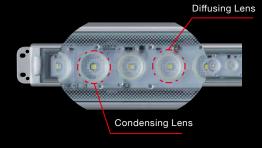
| Description | 200mm | 300mm | 600mm |
|------------------------------------|-------|-------|--------|
| Illuminance (@1m, center, typical) | 600lx | 850lx | 1500lx |

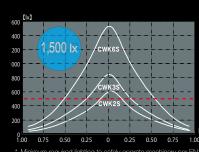
Product List

| Model Number | Rated Voltage | Luminous Color | Power Consumption | Mass |
|--------------|---------------|----------------|-------------------|--------|
| CWK2S-24-CD | 24V DC | Daylight | 8.64W | 0.6kg |
| CWK3S-24-CD | 24V DC | Daylight | 11.52W | 0.75kg |
| CWK6S-24-CD | 24V DC | Daylight | 23.04W | 1.23kg |

Uniform and Optimal Light Distribution

The lens of the CWK is specially designed to optimize illumination to ensure proper lighting of any work area.

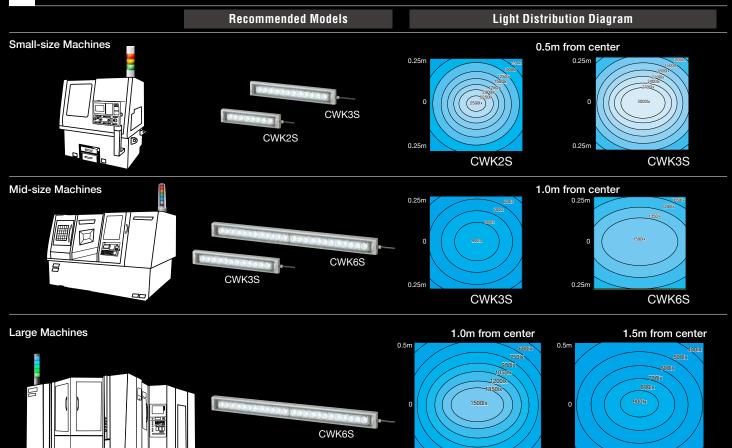




Illuminance regulated by EN 1873*: 500lx

(m)

Ensure proper lighting on all your equipment



0.5m

Wider illumination range



• wider illumination range compared to other models.

CWK6S

• the CWK series has 3 different sizes to choose from, depending on the size of your machine.

0.5r

CWK6S

High Temp./High Pressure Washdown Safe LED Work Light



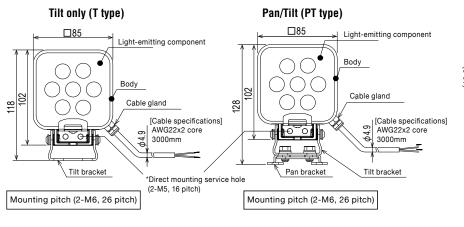
1

Model Number Configuration

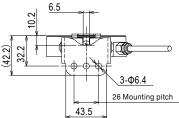
CLN-24A-CD-T

Mounting
 T = Tilt Type
 PT = Pan/Tilt Type

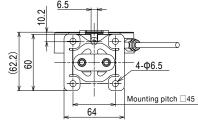
Dimensions (mm)



Mounting dimensions (T type)



Mounting dimensions (PT type)



Product List

| Model Number | Rated Voltage | Luminous Color | Power Consumption | Mass |
|---------------|---------------|----------------|-------------------|--------|
| CLN-24A-CD-T | 24V DC | Daylight | 4.2W | 0.39kg |
| CLN-24A-CD-PT | 24V DC | Daylight | 4.2W | 0.46kg |

Specification

| Description | Distance | | | |
|-------------------------------|----------|-------|--|--|
| Illuminance (Center, typical) | At 1.0m | 820lx | | |
| | At 2.0m | 200lx | | |

Depth **22.**2mm⁻¹

Brightness 820Ix

CD (Daylight) Our CLM Model

(All measure

Compact Design



Applications





Beverage Proc

Ó 200 400 600

Compared to its previous model, the

luminance of the CLN-A is 1.6 times

greater, giving it a brighter and more

Light Distribution Characteristics

820Ix

[IX]

800

600

400 200

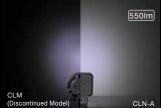
0

-800 -600 -400 -200

distinctive illumination.



Natural Diffusion(CD:Daylight)



Compared to its previous model, the CLN-A illuminates a wider area while still maintaining a natural light distribution.

Smooth Surface



The smooth panel surface helps to prevent accumulation of debris, water, and oil.

IP67G Compliant

Water and Oil Resistant



The CLN-A has a high IP protection rating, and is resistant to water. oil, and coolants used in process machinery. Additionally, the bracket is made of stainless steel to prevent rustina.

Shows Shadows and Light

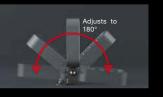


The daylight colored LED achieves clear shadows and edges, making these lights suitable for detailed lighting or light-up displays.

Flexible and Versatile



Tilt Type (T Type)



The up/down angle of the body can be adjusted 180°, and can be folded to a width of 33mm for ease of mounting.

Floor Mount Example







Ceiling Mount Example



Floor Mount Example



Pan/Tilt Type (PT Type)



The up/down angle of the body can be adjusted 180°, as well as 120° for left/right angles. It can be folded to a width of 43mm for ease of mounting.

Wall Mount Example





Adjusts to 120°





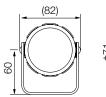
Model Number Configuration

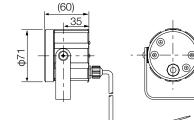


① Rated Voltage 24 = 24V DC

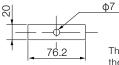
(2) Irradiation TypeBlank = Wide Angle TypeN = Narrow Angle Type

Dimensions (mm)





Mounting dimensions



From power line outlet1400

The body is connected to the negative side of the power supply. When mounting to a positive ground device, insulate the mounting bracket.

Specification

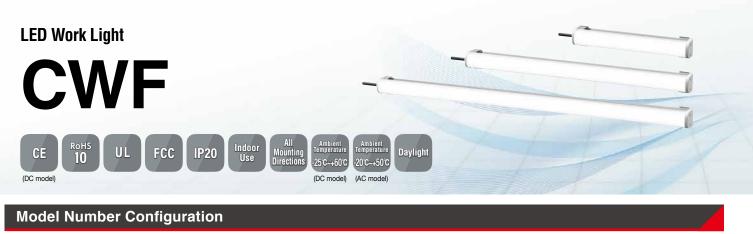
Luminous Intensity

Blank: 25cd or more N: 160cd or more

Product List

| Model Number | Lens | Rated Voltage | Power Consumption | Mass |
|--------------|-------------|---------------|-------------------|-------|
| CLE-24 | Translucent | 24V DC | 1.3W | 0.3kg |
| CLE-24N | Clear | 24V DC | 1.3W | 0.3kg |

13



| CWI | = 3S | -24- | CD |
|-----|----------------|------|-----|
| | $\overline{1}$ | (2) | (3) |

| Length | |
|----------------------------|--|
| 3 = 300mm | |
| 6 = 600mm | |
| 9 = 900mm* ¹ | |

2 Rated Voltage / Standards ③ Luminous Color 24 = 24V DC / UL, CE*2 CD = Daylight M2U = 100-240V AC / UL*3

*1. AC Type Only *2. CWF-3S/6S Type Only *3. 100-240V AC range is only Available in North America

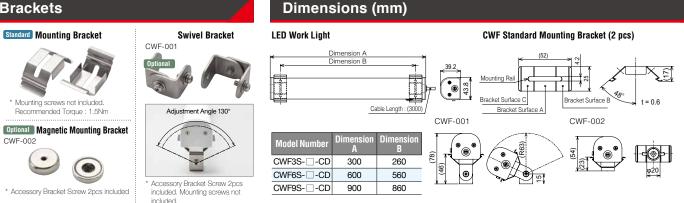
Specification

| Description | Voltago Tupo | Length | | |
|------------------------------------|--------------|--------|-------|-------|
| Description | Voltage Type | 300mm | 600mm | 900mm |
| Illuminanaa (@1m. aantar tumiaa)) | DC | 165lx | 320lx | - |
| Illuminance (@1m, center, typical) | AC | 150lx | 320lx | 445lx |

Product List

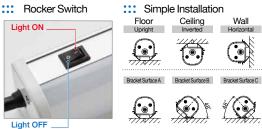
| Model Numb | er F | Rated Voltage | Luminous Color | Power Consumption | Mass |
|------------|------|---------------|----------------|-------------------|--------|
| CWF3S-24- | CD | 24V DC | Daylight | 5W | 0.42kg |
| CWF6S-24- | CD | 24V DC | Daylight | 10W | 0.57kg |
| CWF3S-M2U | -CD | 100-240V AC | Daylight | 5W | 0.53kg |
| CWF6S-M2U | -CD | 100-240V AC | Daylight | 10W | 0.68kg |
| CWF9S-M2U | -CD | 100-240V AC | Daylight | 15W | 0.84kg |

Brackets

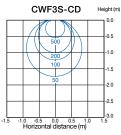


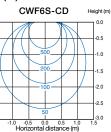
Features

User-Friendly Operation



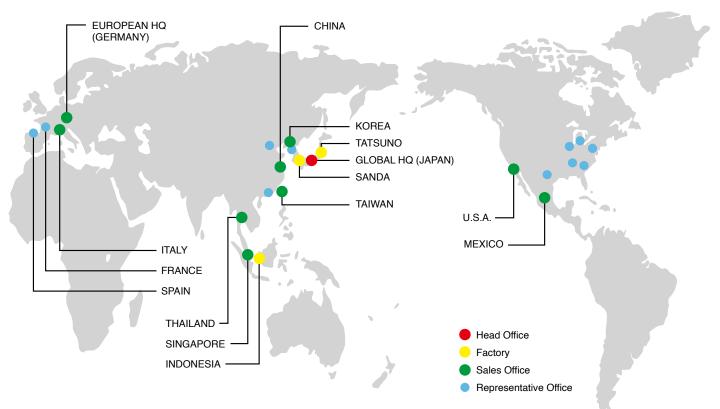
Illuminance Distribution Chart (Ix)





-1.5

PATLITE Global Network



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