

PATLITE®

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	CWK
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

			
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	Φ82	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.

IP

First classification number Protection rating for humans and solid foreign matter	Code No.	Second classification number Protection rating for water
No protection	0	No protection
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.
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.
It is protection against solid foreign matter (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.
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.
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).
Dust resistant type: dust intrusion is completely prevented.	6	It protects against a powerful water-jet stream (sprayed from a nozzle in all directions).
■ Cautionary Notes The IP rating stands for the grade of dust-proof and 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 the appropriate installation location and mounting direction.	7	It protects against temporarily immersion in water.
	8	It protects against applications used in diving conditions specified by the manufacturer.

Supplementary Character
F Oil-proof type: It is not harmfully affected by contact of oil droplets or oil shavings from any direction.
G Oil resistant type: Oil drops and oily grease does not enter inside from any direction.

What is IPX9K?

IPX9K is the German DIN 40050 PART9 standard, defined as a protection that is regulated for high-temperature and high-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 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 sprayed at a horizontal angle while it is being rotated, all done for a period of 30 seconds without being affected by water penetration.

Applications



oil resistance



waterproof





High Temp./High Pressure Washdown Safe LED Work Light

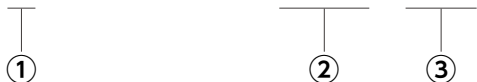
CLA-A

CE **RoHS 10** **UL** **IP66** **IP67** **IP69K** **Indoor Use** **All Mounting Directions**
Daylight Amber **Ambient Temperature -40°C~+60°C**



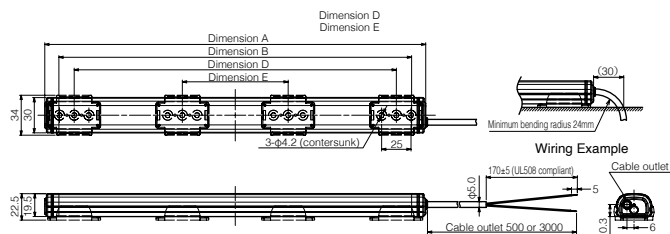
Model Number Configuration

CLA1S-24A-CD-30



① Length 1 = 100 mm 2 = 200 mm 3 = 300 mm 6 = 600 mm 9 = 900 mm 12=1200mm	② Luminous Color CD = Daylight Y = Amber* * 300mm only	③ Cable Length Blank = 0.5m 30 = 3.0m
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Dimensions (mm)



Model	Dimension A Full Length	Dimension B Length of Illuminated Area	Dimension D Recommended Mounting Pitch	Dimension E	Number of 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

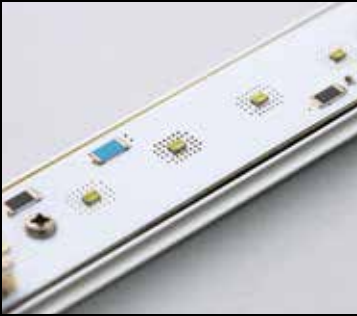
Description	Distance	Length of Illuminated Area						
		100mm	200mm	300mm (CD)	300mm (Y)	600mm	900mm	1200mm
Illuminance (Center, typical)	At 0.3m	-	-	-	-	1,425lx	1,575lx	1,600lx
	At 0.5m	140lx	270lx	400lx	220lx	650lx	810lx	890lx
	At 1.0m	35lx	70lx	105lx	60lx	200lx	280lx	340lx

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

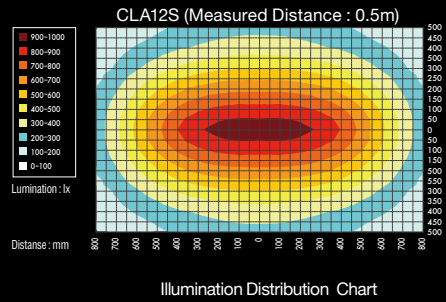
Features

■ 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



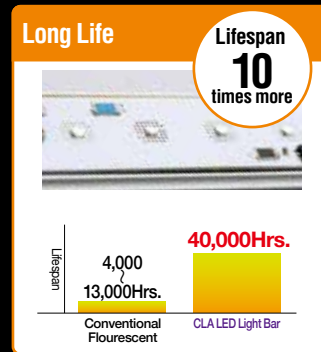
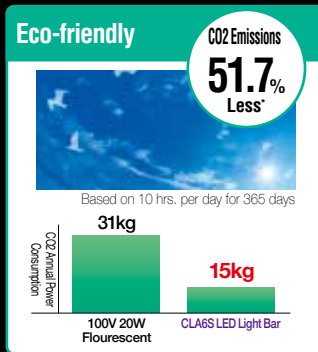
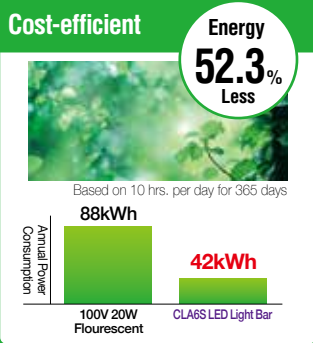
The lights are specially designed so that the beams produce a natural light that does not blind users, while still maintaining high brightness.

■ 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.



Housing: Polycarbonate Resin



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

■ Optimal light distribution



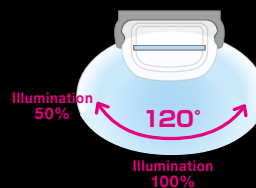
Seamless body surface

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



Backlight illumination (CLA12S-CD)

■ Illumination Range Drawing



■ Lighting Distribution Diagram

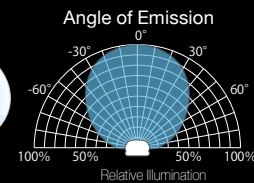


Image of wall reflection

Brackets



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 representative to confirm if this product is sold in your region.

Dust Tight LED Work Light

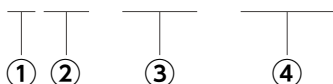
CWA

CE	RoHS 10	UL	IP65	Indoor Use
All Mounting Directions	Ambient Temperature -20°C~+60°C	Daylight		



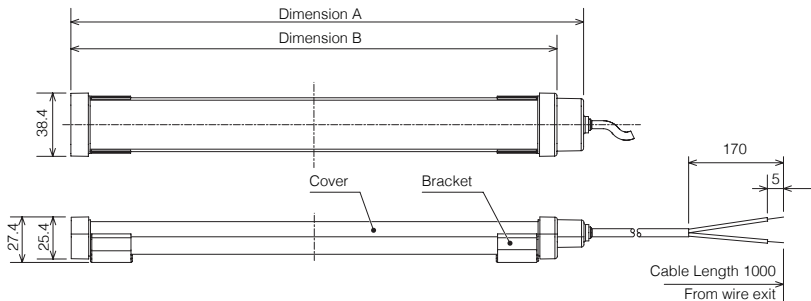
Model Number Configuration

CWA3S-24-CD



① Length 3 = 300mm 6 = 600mm 9 = 900mm	② Connector S = Side-exiting Cable	④ Luminous Color CD = Daylight
	③ Rated Voltage 24 = 24V DC	

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

Description	Length		
	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

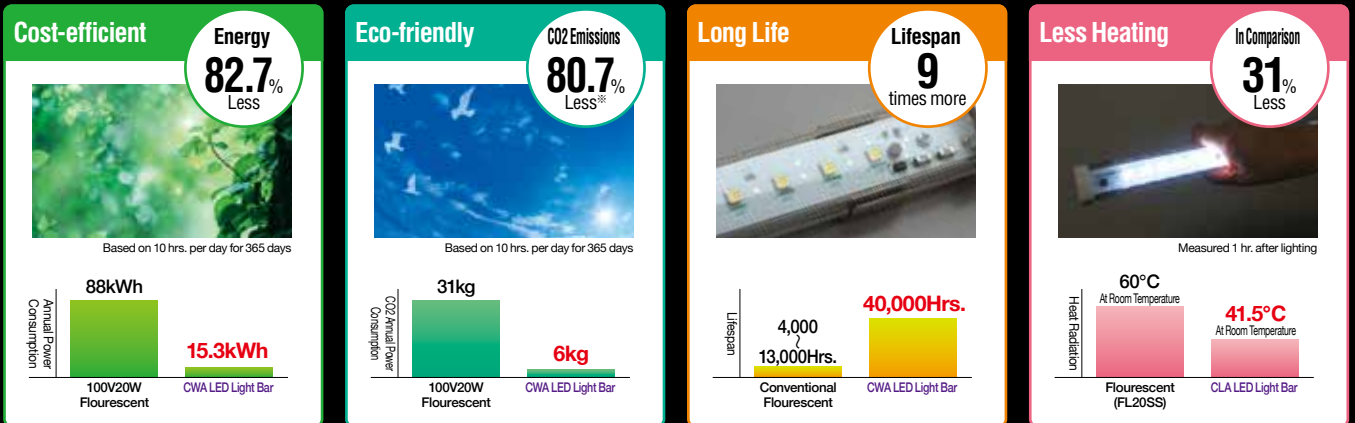
Highly-reliable LED chips are used



L : 900mm

L : 600mm

L : 300mm



Brackets

Mounting Brackets



Holding Brackets



High Temp./High Pressure Washdown Safe LED Work Light

CLK/CLK-A



- CE
- RoHS 10
- UL (AG type only)
- IP66G
- IP67G
- IP69K
- Indoor Use
- All Mounting Directions
- Ambient Temperature -40°C~+60°C
- Daylight Natural White

Model Number Configuration

C: M12 Connector Type

CLK3C-24AG-CD

- ①
- ②
- ③

<p>① Length 2C = 200mm, M12 Connector 3C = 300mm, M12 Connector 3CL = 300mm, Daisy Link</p>	<p>② Material AG = Body: Aluminum, Lens: Tempered Glass SG = Body: Stainless Steel, Lens: Tempered Glass SA = Body: Stainless Steel, Lens: Acrylic Resin + PET Film + Tempered Glass</p>	<p>③ Luminous Color CD = Daylight CN = Natural White (3C only)</p>
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S: Cable Type

CLK3S-24AAG-CD

- ①
- ②
- ③

<p>① Length 2S = 200mm 3S = 300mm 6S = 600mm</p>	<p>② Material AG = Body: Aluminum, Lens: Tempered Glass</p>	<p>③ Luminous Color CD = Daylight CN = Natural White (3S only)</p>
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Product List

Model Number	Rated Voltage	Length of Illuminated Area	Body Material	Lens	Wiring Type	Luminous Color	Power Consumption	Mass
CLK2C-24AG-CD+FL005	24V DC	200mm	Aluminum	Tempered glass	M12 connector	Daylight	8.4W	0.526kg
CLK3C-24AG-CD/CN	24V DC	300mm	Aluminum	Tempered glass	M12 connector	CD: Daylight CN: Natural white	12.5W	0.676kg
CLK3C-24SA-CD/CN	24V DC	300mm	Stainless steel	Acrylic resin + PET film + Tempered glass	M12 connector	CD: Daylight CN: Natural white	12.5W	1.450kg
CLK3C-24SG-CD/CN	24V DC	300mm	Stainless steel	Tempered glass	M12 connector	CD: Daylight CN: Natural white	12.5W	1.490kg
CLK3CL-24AG-CD	24V DC	300mm	Aluminum	Tempered glass	M12 connector Daisy link	Daylight	12.5W	0.676kg
CLK3CL-24SA-CD	24V DC	300mm	Stainless steel	Acrylic resin + PET film + Tempered glass	M12 connector Daisy link	Daylight	12.5W	1.450kg
CLK3CL-24SG-CD	24V DC	300mm	Stainless steel	Tempered glass	M12 connector Daisy link	Daylight	12.5W	1.490kg
CLK6C-24AG-CD	24V DC	600mm	Aluminum	Tempered glass	M12 connector	Daylight	25W	1.222kg
CLK6CL-24AG-CD	24V DC	600mm	Aluminum	Tempered glass	M12 connector Daisy link	Daylight	25W	1.222kg
CLK2S-24AAG-CD	24V DC	200mm	Aluminum	Tempered glass	0.5m cable	Daylight	8.4W	0.526kg
CLK3S-24AAG-CD/CN	24V DC	300mm	Aluminum	Tempered glass	0.5m cable	CD: Daylight CN: Natural white	12.5W	0.676kg
CLK6S-24AAG-CD	24V DC	600mm	Aluminum	Tempered glass	0.5m cable	Daylight	25W	1.222kg

Specification

Description	Distance	Luminous Segment Length			Description	Distance	Luminous Segment Length		
		200mm	300mm	600mm			200mm	300mm	600mm
Illuminance (Center, typical)	At 1.0m	820lx	1,200lx	2,100lx	Illuminance (Center, typical)	At 2.0m	200lx	300lx	580lx

Dimensions (mm)

S-AG/C-AG specifications

Luminous Segment Length	Dimensions A	Dimensions B	Dimensions C
200mm	250mm	274mm	290mm
300mm	350mm	374mm	390mm
600mm	650mm	674mm	690mm

S specifications

C specifications

C-G specifications

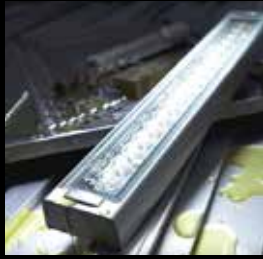
Outer mounting bracket (Sold separately)

Caution
Please waterproof and oil-proof the end of the cable if it will come in contact with water or be in a low temperature environment.

Features

Durable material

Aluminum Body



WATER RESISTANT OIL RESISTANT IP66G IP67G IP69K
Machine Tooling Equipment Production Equipment

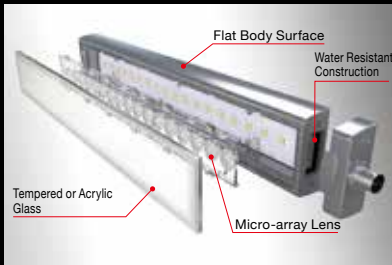
Stainless Steel Body



WATER RESISTANT CHEMICAL RESISTANT IP66G IP67G IP69K
Food Medicine Chemical

Slim profile

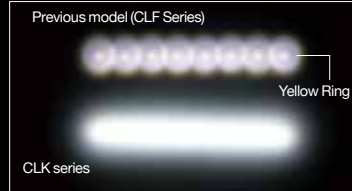
Angled Body & Flat Surface



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.

Superior brightness and light distribution

Yellow Ring Reduction



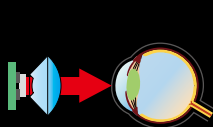
The specially designed "micro-array lens" helps to even out light refraction and reduce "yellow rings" which disrupt uniform illumination.

Micro-array Lens

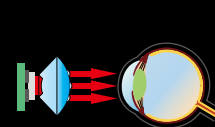


Helps reduce blinding light

Conventional Lens

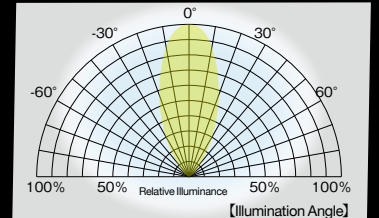


New "Micro-array" Lens

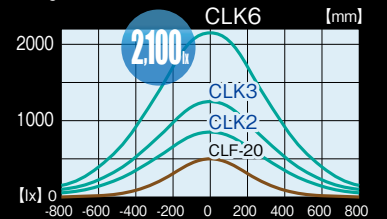


The design of the Micro-array Lens conforms to the Photobiological Safety of Lamps and Lamp Systems (Compliance: EN62471- 2) in the Exempt Risk Group, which verifies that there is no immediate retina damage.

Light Direction Characteristics



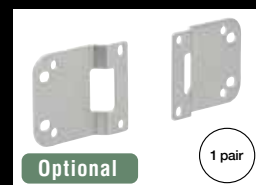
Light Distribution Characteristics



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

CWK



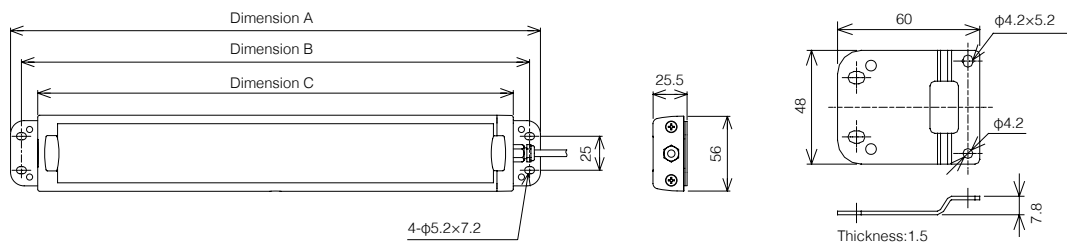
Model Number Configuration

CWK2S-24-CD

① ② ③ ④

- | | | |
|---|--|-----------------------------------|
| ① Length
2 = 200mm
3 = 300mm
6 = 600mm | ② Connector Type
S = Side-exiting Cable | ④ Luminous Color
CD = Daylight |
| | ③ Rated Voltage
24 = 24V DC | |

Dimensions (mm)



Model Number	Dimension A	Dimension B	Dimension C
	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



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

Specification

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

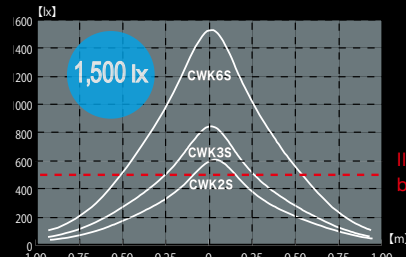
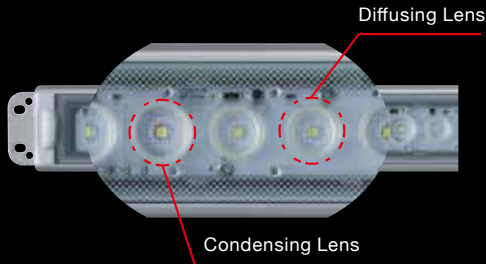
Product List

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

Features

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

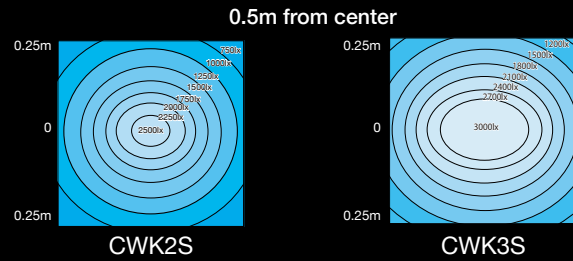
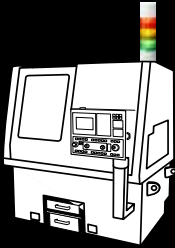
* Minimum required lighting to safely operate machinery per EN1873.

Ensure proper lighting on all your equipment

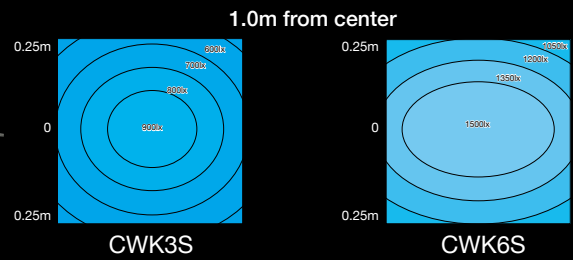
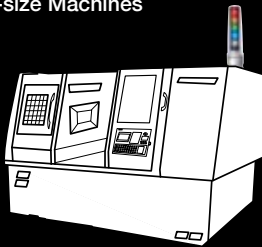
Recommended Models

Light Distribution Diagram

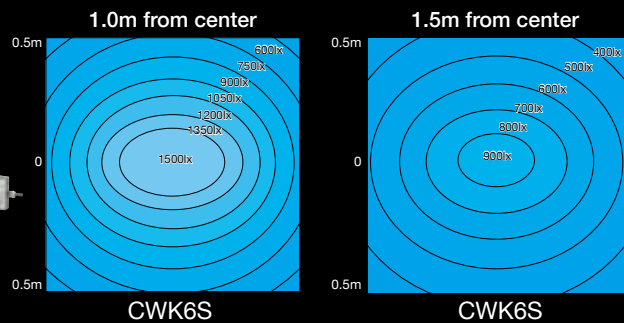
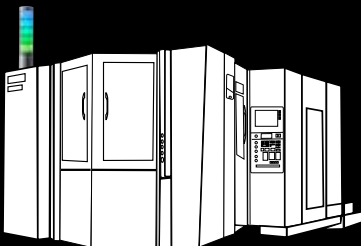
Small-size Machines



Mid-size Machines



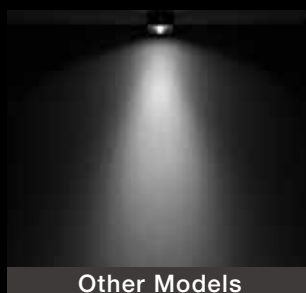
Large Machines



Wider illumination range



CWK Series



Other Models

- wider illumination range compared to other models.
- the CWK series has 3 different sizes to choose from, depending on the size of your machine.

High Temp./High Pressure Washdown Safe LED Work Light

CLN-A

CE	RoHS 10	UL	IP66G	IP67G	IP69K	Indoor Use
All Mounting Directions	Ambient Temperature -40C~+60C	Daylight				



Model Number Configuration

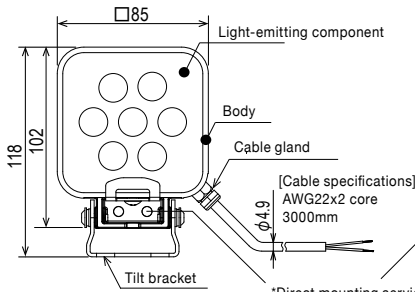
CLN-24A-CD-T

① Mounting
T = Tilt Type
PT = Pan/Tilt Type

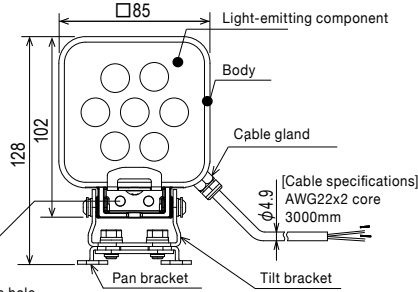
①

Dimensions (mm)

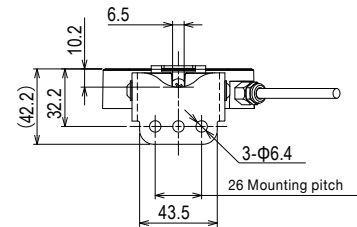
Tilt only (T type)



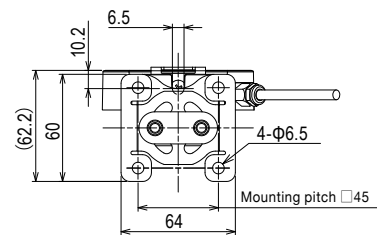
Pan/Tilt (PT type)



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 **820lx**

IP67G
Compliant

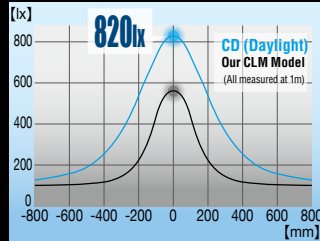
Compact Design

Compact design allows for installation in tight spaces.

^{*1} PATLITE's comparison as of November, 2012

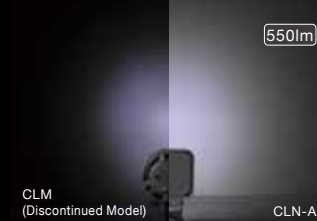


Light Distribution Characteristics



Compared to its previous model, the luminance of the CLN-A is 1.6 times greater, giving it a brighter and more 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.

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 rusting.

Applications



Smooth Surface



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

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.



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.

Floor Mount Example



Wall Mount Example



Ceiling Mount Example



Floor Mount Example



Wall Mount Example



Ceiling Mount Example



* The tilt & pan/tilt brackets can also be removed for Rear Attachment applications.

High Temp./High Pressure Washdown Safe LED Work Light

CLE

- CE
- RoHS 10
- IP65F
- Indoor/Outdoor Use
- All Mounting Directions
- Ambient Temperature -25°C~+60°C



CLE-24 (Wide Angle Type)



CLE-24N (Narrow Angle Type)

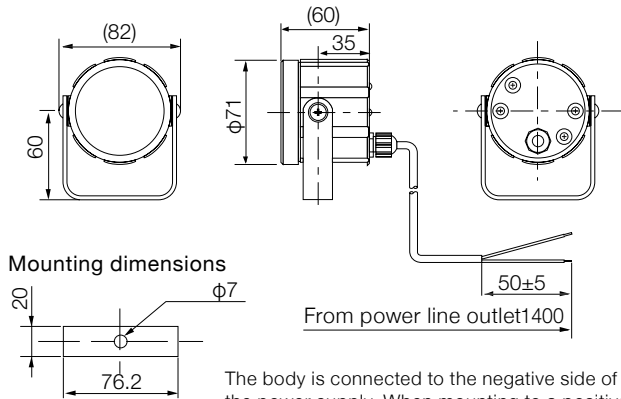
Model Number Configuration

CLE-24N

① ②

- ① Rated Voltage
24 = 24V DC
- ② Irradiation Type
Blank = Wide Angle Type
N = Narrow Angle Type

Dimensions (mm)



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

LED Work Light

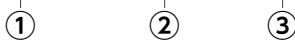
CWF



CE <small>(DC model)</small>	RoHS 10	UL	FCC	IP20	Indoor Use	All Mounting Directions	Ambient Temperature -25°C~+60°C <small>(DC model)</small>	Ambient Temperature -20°C~+50°C <small>(AC model)</small>	Daylight
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Model Number Configuration

CWF3S-24-CD



① Length 3 = 300mm 6 = 600mm 9 = 900mm*1	② Rated Voltage / Standards 24 = 24V DC / UL, CE*2 M2U = 100-240V AC / UL*3	③ Luminous Color CD = Daylight
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*1. AC Type Only
*2. CWF-3S/6S Type Only
*3. 100-240V AC range is only Available in North America

Specification

Description	Voltage Type	Length		
		300mm	600mm	900mm
Illuminance (@1m, center, typical)	DC	165lx	320lx	-
	AC	150lx	320lx	445lx

Product List

Model Number	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

Standard Mounting Bracket



* Mounting screws not included.
Recommended Torque : 1.5Nm

Optional Magnetic Mounting Bracket

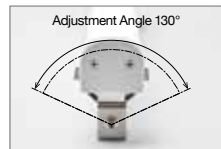
CWF-002



* Accessory Bracket Screw 2pcs included

Optional Swivel Bracket

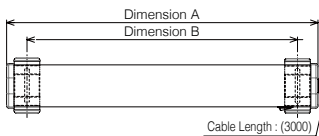
CWF-001



* Accessory Bracket Screw 2pcs included. Mounting screws not included.

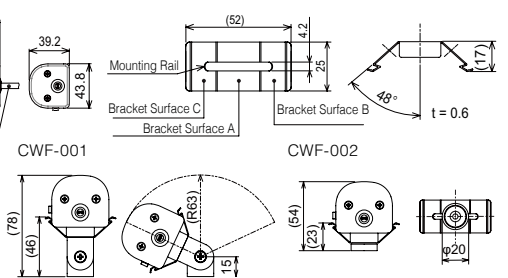
Dimensions (mm)

LED Work Light



Model Number	Dimension A	Dimension B
CWF3S-□-CD	300	260
CWF6S-□-CD	600	560
CWF9S-□-CD	900	860

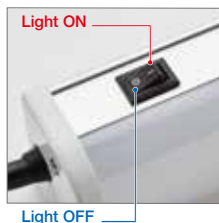
CWF Standard Mounting Bracket (2 pcs)



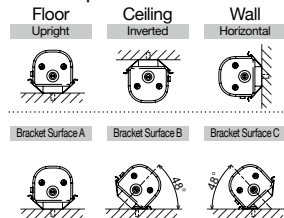
Features

User-Friendly Operation

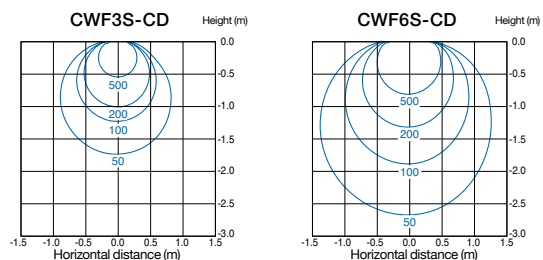
Rocker Switch



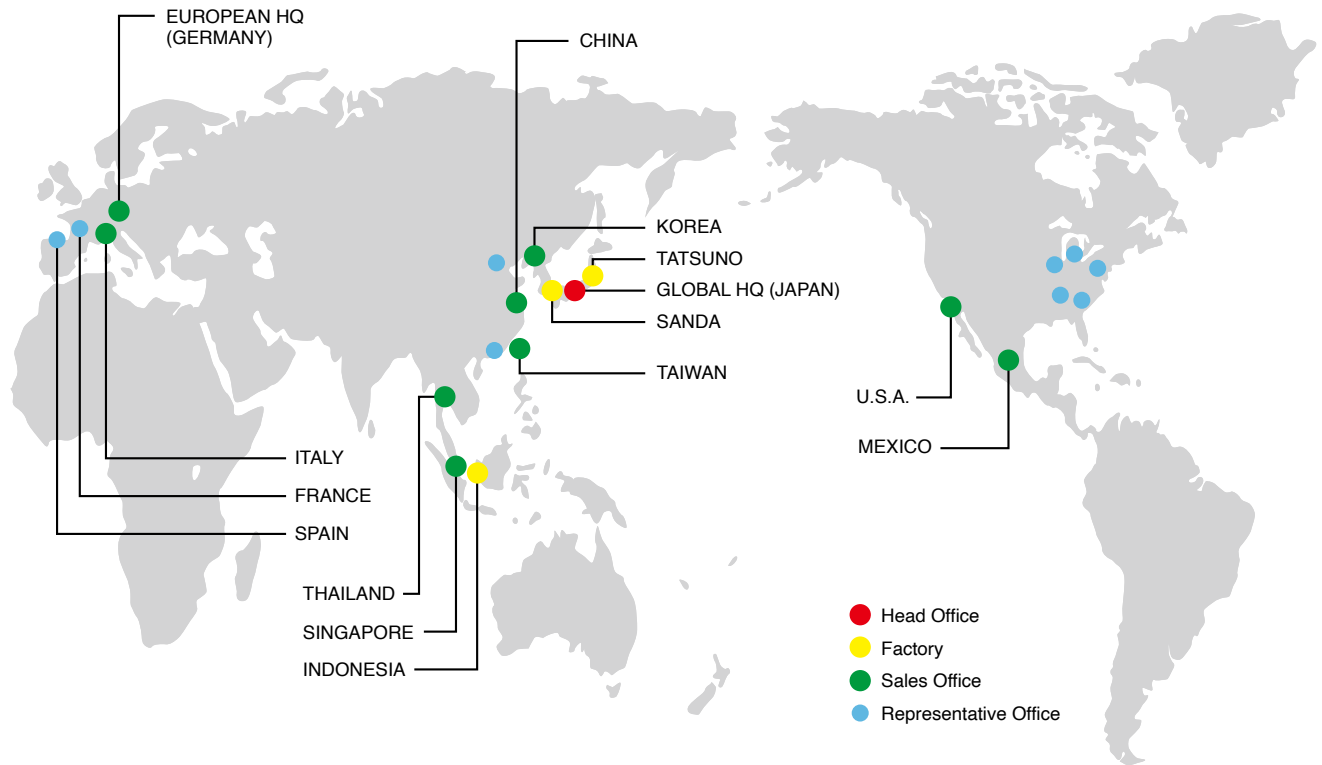
Simple Installation



Illuminance Distribution Chart (lx)



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