



CLA3S-CN

CLA1S-CN

Cost Saving

Earth Friendly

Long Life

Low Heat

TECHNOLOGY

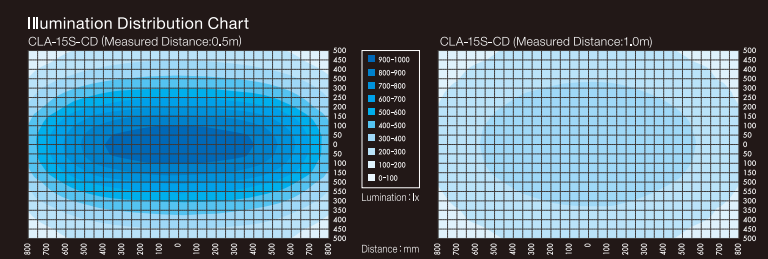
Highly reliable LED chips are used.



The highly reliable LED chip, which is the core of LED lighting, has nearly 10 times (about 40,000 hours) the lifespan (based on LED brightness of 70%) in comparison to the common fluorescent light, it also does not contain any mercury.

Uniform light which subdues the glaring brightness

In comparison to an LED luminous source, we take advantage of the straight beam optical characteristic of the LED and translucent material without dropping brightness or overdoing it, but reproducing a natural light.



Shock-proof polycarbonate resin

Polycarbonate resin construction, which is a hard to break material, was adopted to endure all operating environments. In addition, the most difficult thing has been accomplished; for the body to acquire the IP69K conformity. And, unlike other LED lighting products which uses glass material, etc., we've reduced the danger of body cover breakage or from fragments mixing in goods (for the food industry, etc).



Housing: Polycarbonate Resin

Cost Saving

Energy ab. **52.3%** Less

Based on 10 hrs. per day for 365 days

88kWh Annual Power Consumption (100V20W Fluorescent)

42kWh Annual Power Consumption (CLA6S LED Light Bar)

Earth Friendly

CO2 Emissions ab. **51.7%** Less

Based on 10 hrs. per day for 365 days

31kg CO2 Annual Power Consumption (100V20W Fluorescent)

15kg CO2 Annual Power Consumption (CLA6S LED Light Bar)

Long Life

Lifespan ab. **10** times more

4,000 hrs. (Conventional Fluorescent)

40,000Hrs. (CLA LED Light Bar)

Low Heat

In Comparison ab. **34%** Less

Measured 1 hr. after lighting

60°C At Room Temperature (Fluorescent (FL20SS))

39.5°C At Room Temperature (CLA LED Light Bar)

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

Specifications																	
Model Name	CLA1S-□			CLA2S-□			CLA3S-□			CLA6S-□		CLA9S-□		CLA12S-□		CLA15S-□	
Color Code	CD	CN	Y	CD	CN	CD	CN	Y	CD	CN	CD	CN	CD	CN	CD	CN	
Luminous Color	Daylight	Natural White	Yellow	Daylight	Natural White	Daylight	Natural White	Yellow	Daylight	Natural White	Daylight	Natural White	Daylight	Natural White	Daylight	Natural White	
Color Temperature(Typ.)	6800K	4800K	—	6800K	4800K	6800K	4800K	—	6800K	4800K	6800K	4800K	6800K	4800K	6800K	4800K	
Wavelength (nm)	—	—	500	—	—	—	—	—	—	—	—	—	—	—	—	—	
Illuminance (Icat DC24V)	0.3m	—	—	—	—	—	—	—	1,425	1,425	1,525	1,525	1,600	1,600	1,625	1,625	
	0.5m	140	140	78	270	270	400	400	220	650	650	810	810	890	890	945	
	1.0m	35	35	20	70	70	105	105	60	200	200	280	280	340	340	385	
Luminous Flux (lm)	125	125	60	240	240	360	360	195	690	690	980	980	1,375	1,375	1,725	1,725	
Rated Voltage	24V DC (Polarized)																
Operating Voltage Range	24V DC ±10%																
Rated Current Consumption (mA±10%)	104			208			240			480		720		960		1,200	
Rated Power Consumption (W)	2.5			5.0			5.7			11.6		17.3		23.0		28.8	
Operating Temperature Range	-40°C to +60°C (RH 90% or less, no condensation)																
Main Body Material	Polycarbonate Resin (Waterproof Packing/Screw Cap*: Silicon)																
Protection Rating	IP66/67 (IEC 60529)/69K (DIN 40 050-9) (Cable Terminal not included)																
Mounting Direction	Indoor Use Any Direction																
Insulation Resistance	5MΩ or more with a 500V DC Megohmmeter																
Withstanding Voltage	500V AC for 1 minute																
Vibration Resistance	30Hz 19.6 mv/s ² Up and Down/Right to Left/ Back and Forth, each for 2 hours																
Mass	80g ±10%			130g ±10%			180g ±10%			340g ±10%		500g ±10%		660g ±10%		820g ±10%	

* The screw caps are removable. Please remove them in advance when using high-pressure water applications.

Outer Dimensions (Unit : mm)

Model Name	Dim. A	Dim. B	Dim. D	Dim. E	SZ-310AR Standard Bracket
	Maximum	Lighting	Mounting Pitch	Recommended Pitch	
CLA1S-□	124	100	74	—	2 pcs.
CLA2S-□	224	200	174	—	2 pcs.
CLA3S-□	324	300	274	—	2 pcs.
CLA6S-□	624	600	574	—	2 pcs.
CLA9S-□	924	900	874	290	4 pcs.
CLA12S-□	1224	1200	1174	390	4 pcs.
CLA15S-□	1524	1500	1474	490	4 pcs.

Model Name	SZ-310ARM		SZ-310AS		SZ-310ASB	
	Compatible Model	Compatible Model	Total Length	Mounting Pitch	Compatible Model	Total Length
CLA1S-□	○	○	149	135	×	—
CLA2S-□	○	○	249	235	×	—
CLA3S-□	○	○	349	335	○	381
CLA6S-□	○	○	649	635	×	—
CLA9S-□	○	○	949	935	×	—
CLA12S-□	○	○	1249	1235	×	—
CLA15S-□	○	○	1549	1535	×	—

Model Code: Light Bar Length (1:100mm, 2:200mm, 3:300mm, 6:600mm, 9:900mm, 12:1200mm, 15:1500mm) Model: CLA□S-24-□□ Cable Length (No Code: 0.5m, 30: 3.0m) LED Color (C D: Daylight, CN: Natural White, Y: Yellow)

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CAUTION

To ensure correct use of these products, read the "Instruction Manual" prior to use. Failure to follow all safeguards can result in fire, electric shock, or other accidents. Specifications are subject to change without notice.

PATLITE ECO PROJECT

For the benefit of mankind and the earth, Patlite is committed to developing environmentally friendly products.

PATLITE®
New Frontiers in Safety, Security and Comfort.

PATLED's

IP69K Conformity

Ultra-bright Uniform LED Illumination
Seven Different Sizes
Waterproof

Slim Waterproof Type LED Light Bar **CLA**



IP69K Conformity

Waterproof performance which applies a jet-stream of pressurized water at a temperature of 80°C

CONCEPT

"The LED light bar can be used in every possible environment" is a long-time idea behind the PATLITE Engineer's mind when designing the slim type LED light bar model CLA with the concept of it enduring the most severe conditions for use...and now the waiting for LED lighting technology and craftsmanship has finally arrived.

High waterproof performance was already achieved but without having the energy saving ability, the environment-resistant performance not offered by the fluorescent light in any variety of production sites, nor any public or commercial establishments, etc., without impairing the general illumination performance. Performance to which a high temperature of 80°C and high pressure washing in severe environments (like the meat and food industry), demonstrates that it can be used for a variety of scenes with a peaceful easy feeling.

IP6X	IPX6	IPX7	IPX9K
Typical Environment	Dusty Environment	Water-splash Environments	Environment Exposed to Water
<ul style="list-style-type: none"> Control/Switchboard Panels Lighting Machinery and Equipment Lighting 	<ul style="list-style-type: none"> Machining/Factory Sites Farmsteads 	<ul style="list-style-type: none"> Signboards/Working Lights Commercial/Public Furnishings 	<ul style="list-style-type: none"> Meat and Food Packaging/Processing Industry Beverage/Medicine Manufacturing Industry

Protection Rating Explanation (Standard Number / IEC 60529)

- IP6X= The product is placed in a dust chamber with a negative pressure state so that dust is made to float, and there is no invasion inside.
- IPX6= A water nozzle with a diameter of 12.0mm is placed at a range from 2.5 to 3.0 meters with a water velocity of 100 litres per minute injected towards the test piece in an omni direction for three minutes or more without being affected by any harmful influences.
- IPX7= With the distance of 0.15 m from the top of the product to the water surface and a distance from the bottom of the product to the bottom of the tank at a distance of 1 m, it is submerged for 30 minutes with no harmful penetration.

※ Since testing is performed under a controlled environment within provisions including a designated time, it does not consider conditions for continuous use.

IP66 IP67 IP69K



■ IP69K (80°C Jet-stream Steam Examination) (Standard Number / DIN 40 050-9)

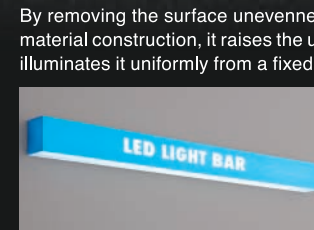
Steam jet injection (80-100 bar at a temperature of 80°C) is applied at angles of 0, 30, 60, and 90 degrees at a distance from 100-150mm repeated 5 times at a duration of 30 seconds without being affected by any harmful influences.

DESIGN

■ With all translucent material, it implements equal light distribution with a seamless design



Seamless Shaped Body



Backlight Illumination Example (CLA12S-CD)

By removing the surface unevenness, the light distribution balance can spread more uniformly. And with an all translucent material construction, it raises the uniformity of the luminosity more. The illumination angle fills a large 120 degree area and illuminates it uniformly from a fixed position.

Seamless Design

All Translucent Material

Easy Detachment

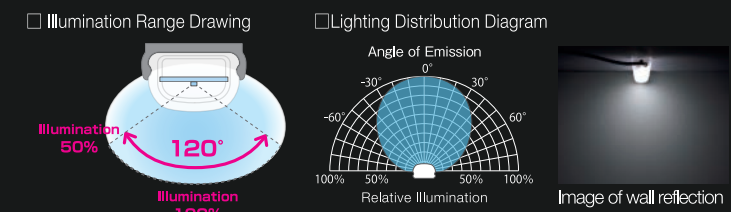


Image of wall reflection

■ Slide rail enables easy attachment and detachment



■ Attachment bracket for various scenes

Standard	Option	Option	Option
SZ-310AR Rear Attachment Type (Screw Mount)	SZ-310ARM Rear Attachment Type (Magnetic Mount)	SZ-310AS Side Attachment Type (Screw Mount)	SZ-310ASB Side Attachment Type (Screw Mount)
Material: Polycarbonate Resin	Material: Polycarbonate Resin	Material: Polycarbonate Resin	Material: Polycarbonate Resin
※ Necessary Quantity CLA1S~15S/2 pcs. CLA9S~15S/4 pcs.	※ Necessary Quantity CLA1S~15S/2 pcs. CLA9S~15S/4 pcs.	Matches Models CLB-N1/N2 Pitch	Matches Model CLB-N Pitch
Shining from end to end, the mounting position can be placed anywhere for the body to snap in.	With a powerful magnet, fastening onto surfaces such as steel can be attached easily.	The side attachment bracket. Designed to match the pitch to our "CLB" Models "N1" and "N2".	The pitch is designed to match the "CLB-N" so replacing it with a new "CLA-3S" can be easier.



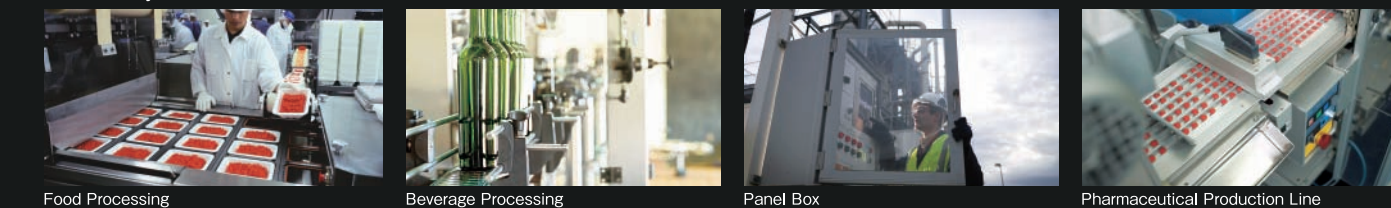
■ Durable Cord can withstand environment conditions from -40°C to +60°C

The polyurethane sheath was used for the wire housing so that it could endure the operating temperature environmental range, the same as the housing. (It also has chemical resistance)

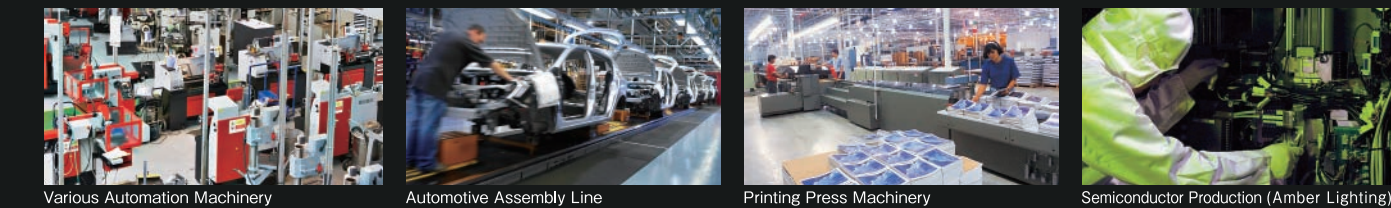
6800K DAYLIGHT COLOR(-CD)		4800K NATURAL WHITE COLOR(-CN)	
15S	L:1500mm	1S	L:100mm
12S	L:1200mm	2S	L:200mm
9S	L:900mm	3S	L:300mm
6S	L:600mm	6S	L:600mm
3S	L:300mm	9S	L:900mm
2S	L:200mm	12S	L:1200mm
1S	L:100mm	15S	L:1500mm
Amber AMBER COLOR(-Y)		1S	L:100mm
		3S	L:300mm

SCENE

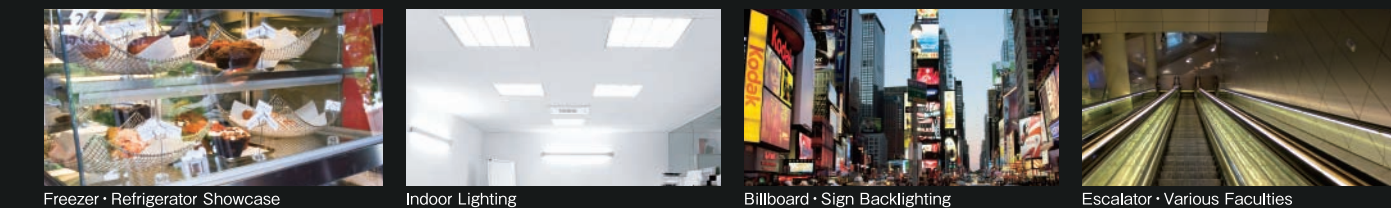
■ Factory · Plant Facilities



■ Equipment Manufacturer



■ Other



PATLED's LINEUP

Oil-resistant Light Diffused Type LED Light Bar CLT	Water-resistant Machine Integrated Type LED Light Bar CLF	Oil-resistant Spotlight Type LED Work Light CLM
IP66C IP67C Daylight 6750K Water/Oil Resistant RoHS CE cULus	IP67 Daylight 6750K Red LED Yellow LED RoHS CE cULus	IP67F Daylight 6750K RoHS CE cULus
CLT30-24T	CLF20-24-C CLF10-24-C CLF10-24-R CLF10-24-Y	CLM-24