

UNDER UDDER LED LIGHTING

Powered by Arc Archer



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LED Lighting Solution

Under Udder is the latest LED lighting solution for Dairy Farms developed by Arc Archer LLC. The Product was developed in response to a request by dairy professionals who needed more light when milking. For decades, they struggled to ensure effective cleaning, inspection and sterilization due to low light. In addition, securing the cup cluster on the teat took longer in low light environments. Under Udder delivers benefits that dairy farms have been waiting a long time for.

The breakthrough Under Udder system is engineered and built to withstand the daily wear and tear of the dairy industry. The lighting system provides the illumination needed to effectively aid in the cleaning, inspection and processing of dairy cows. LED lighting is the most efficient and durable lighting technology on the market today.

With the escalating expenses to the farming industry today; Under Udder's affordable and effective LED solutions is an ideal solution for farmers. Under Udder is a completely sealed system that allows for direct pressure washing and chemical contact, even on the electrical connections.

The aluminum construction features a Polycarbonate lens and chemical resistant covering, allowing you to place lighting 12-18 inches away from the udder to aid in the placement of the cup cluster.

With a lower cost of ownership, a 3-year warranty against workmanship, and a 50% off replacement program for damaged parts, Under Udder will be reliable until the cows come home, and even long after that.



**Without
Under Udder
Illumination**



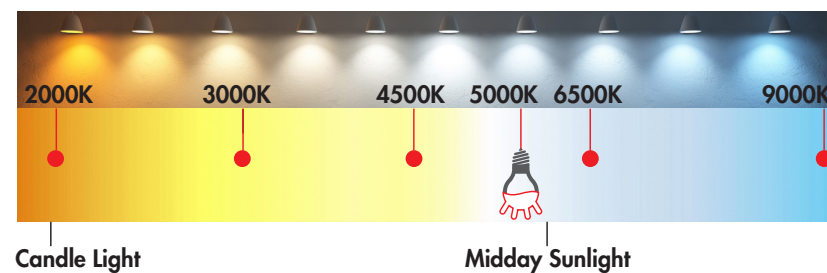
- **Save Time**
- **Ensure Health**
- **Cleanliness**

Conventional

Conventional milk house lighting is usually mounted on the ceiling, which creates shadows in the work area that make it difficult for the operator to clean, inspect and hook up. This requires more time to complete tasks and potentially lowers the quality of the milk.

Under Udder LED

Under Udder puts the light where it's most needed, giving operators the confidence to hook up properly, and ensure the health and cleanliness of the animal. The Under Udder also illuminates entry areas, which reduces shadows and relaxes the animal. A relaxed animal allows for faster loading times and improved product quality.



Candle Light

Midday Sunlight

UU-24H55K96C LED



LED Light Product							
Part Number	Nominal Length (inches)	Actual Length (inches)	Lumen Output	Output Volts (DC)	Watts (DC)	CRI	IP
UU-24H55K12C-3	12	11.88	201	24	2.1	80+	IP68
UU-24H55K18C-3	18	17.81	405	24	4.2	80+	IP68
UU-24H55K22C-3	22	21.75	540	24	5.6	80+	IP68
UU-24H55K24C-3	24	23.69	607	24	6.3	80+	IP68
UU-24H55K48C-3	48	47.31	1417	24	14.7	80+	IP68
UU-24H55K95C-3	95	94.50	3035	24	31.5	80+	IP68

Accessories			
Part Number	Description	Overall Length	Wire Length
UU-CLAMPNTB	Under Udder P Clamp Mount - Low Profile	N/A	N/A
UU-DRIVER	Under Udder Driver Assembly 480W/24V	N/A	N/A

Recommended Wire				
Outer Diameter	Wire Gauge	Amps	Conductors	Coating Material
Min. 0.285"	Min. 18 gauge	5+ amps	2 conductors - Stranded Wire	CPE, PVC, Neoprene, TPE
Max. 0.330"	Max. 12 gauge			

Under Udder Lights are designed to prevent moisture, chemicals, and other hazards from damaging the LED Light, even in the most challenging environments.



CONFORMS TO UL STD 2108
CERTIFIED TO CSA STD C22.2#9.0

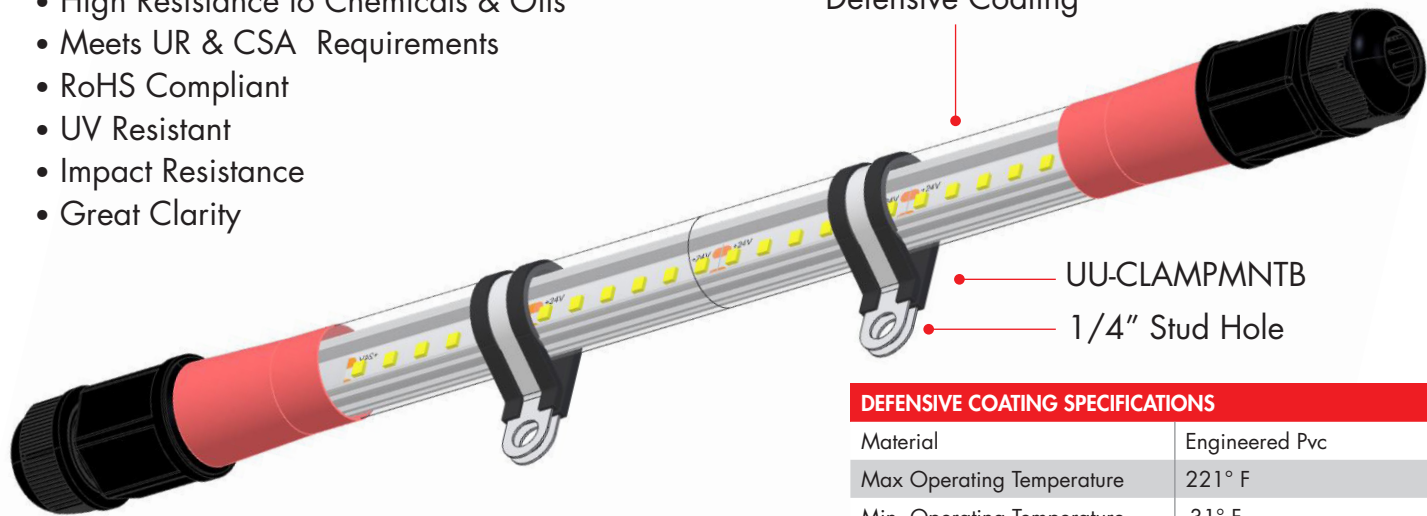
CONFORMS TO IP68 TESTING

DEFENSIVE COATING IS A FILM THAT RUNS THE LENGTH OF THE LIGHT TO PROTECT IT FROM HARMFUL CONDITIONS.

- High Resistance to Chemicals & Oils
- Meets UR & CSA Requirements
- RoHS Compliant
- UV Resistant
- Impact Resistance
- Great Clarity

UU-CLAMPMNT

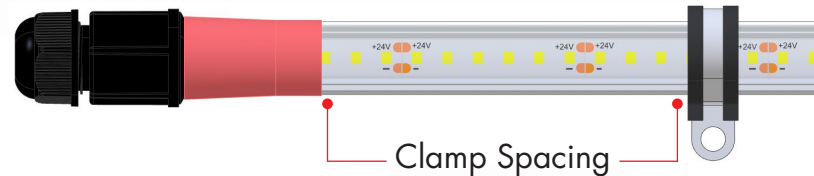
Defensive Coating



DEFENSIVE COATING SPECIFICATIONS

Material	Engineered Pvc
Max Operating Temperature	221° F
Min. Operating Temperature	-31° F
Approximate Wall Thickness	0.038"

Clamp Spacing



CLAMP LOCATION

18in or less	3 inches from red seal
19 – 35 inches	4 inches from red seal
36 – 95 inches	6 inches from red seal

After 5ft (60 in) additional clamp is recommended to centerpoint of the light

UU-Driver

HLG-480H LED DRIVER

NOTE: Recommended Driver



NOTE: Lengths Represent Max Feet Of Light On 20A Driver In Following Configurations.

MEAN WELL SPECIFICATIONS

Dc Voltage (Output)	24V
Rated Current	20A
Rated Power	480W
Ac Current (Input)	5A / 115V
Efficiency	95.5%

LED DRIVER MEAN WELL HLG-480H SERIES SPECS

- Operating Temperature Range of -40° F to 194° F
- Metal Housing with Class I Design
- IP67 Protection for Outdoor Installation
- Typical Lifetime > 50,000 Hours
- 7 Year Driver Warranty Under Normal Use



Manufacturer's Limited Warranty

Under Udder warrants its product to be free from defect in material and workmanship for three (3) years from the original purchase date.

Purchaser must notify Under Udder within thirty (30) days of noticing defect. Return authorization is required. Under Udder reserves the right to change design of products without obligation to modify any previously manufactured products. Under Udder is the sole manufacturer to warranty all product and shall have no liability for failure of items in which its products are used or aesthetic imperfections that do not affect function of the product.

WARRANTY ONLY VALID IF UNDER UDDER MOUNTING CLAMPS ARE USED

This constitutes the sole warranty for the product. There are no other warranties expressed or implied, including warranty of merchantability or fitness for a particular purpose. Under Udder will not be liable for incidental or consequential damages. Remedy is limited to replacement or repair at Under Udder's discretion. Under Udder is not responsible for damage due to removal or installation or cost of removal, shipping, or installation of repaired or replaced product.

Original purchase invoice is required as proof of ownership and warranty right. Under Udder reserves the right to utilize new, reconditioned or repaired products in the warranty repair or replacement process, which will be comparable in function and performance to an original product or part, as determined by Under Udder in its sole discretion, and warranted for the remainder of the warranty period.

The determination of whether the product is defective shall be made by Under Udder, in its sole discretion with consideration given to the overall performance of the product. If Under Udder furnishes advice or assistance for its product, or any system or equipment in which product

may be installed, such advice or assistance shall not subject Under Udder to liability, whether in contract, warranty, tort, negligence, or otherwise.

Some states do not allow a limit on length of an implied warranty – the above limit may not apply. Some states do not allow exclusion or limitation of incidental or consequential damages, so the above limitation may not apply. This warranty gives specific legal rights – you may have other right, which vary from state to state.

This Limited Warranty shall be void in the event of accident, abuse, damage, improper transport, improper handling, improper service, improper storage, improper installation, improper maintenance, tampering, alteration or repair not performed by Under Udder, negligence, use different from intended use, power supplied to any part of product exceeds rated tolerance, external device attached by purchaser that causes excessive operating conditions, practice causing condition exceeding the design tolerance of the product, serial or batch ID removed or defaced, acts of God, vandalism, fire, civil disturbance or failure to comply with operating instructions. Purchaser shall maintain adequate usage and condition records.

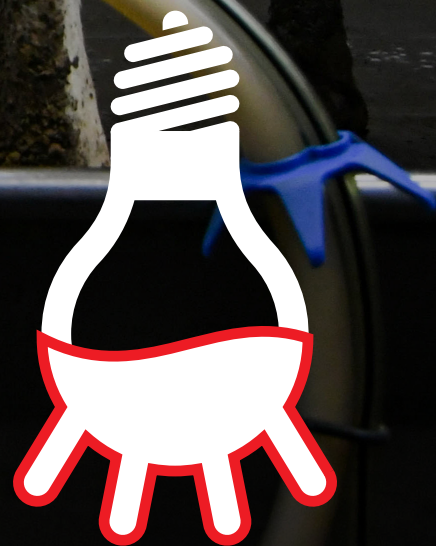
SPECIFIC LIMITED WARRANTY

1. POWER SUPPLY/DRIVER FAILURE (LUMINAIRES) As warranted against failure by manufacturer,
 2. A product shall not be considered defective solely as a result of the failure of individual LED components to emit light if the number of inoperable components is less than 10% of the total number of LED components in the product.
- 3 YEAR LIGHT REPLACEMENT PROGRAM** If at any time a light becomes damaged while in use, Under Udder will replace the light for 50% of the original cost up to three (3) years after original full priced purchase date.
- 3 YEAR LIGHT REPLACEMENT PROGRAM REQUIREMENTS –** Damaged light must be returned to Under Udder within two (2) weeks of replacement arrival. Customer will be charged full cost and a credit will be applied once Under Udder has received damaged light.



Proudly Manufactured in the USA

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