

FRONTLINE Lighting

Introducing

TALIS

TACTICAL LIGHTING SYSTEM



Berry-Amendment compliant and manufactured in the USA

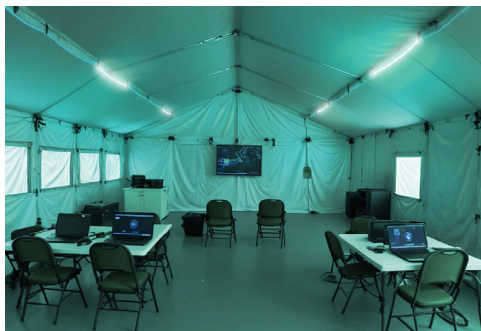
The TALIS (Tactical Lighting System) is a patented lighting system which addresses the Warfighters requirements for SWaP-C (Size, Weight, Power and Cost) flexibility and ease of operation. Unlike any other lighting system in the market today, TALIS will positively impact your deployment times.



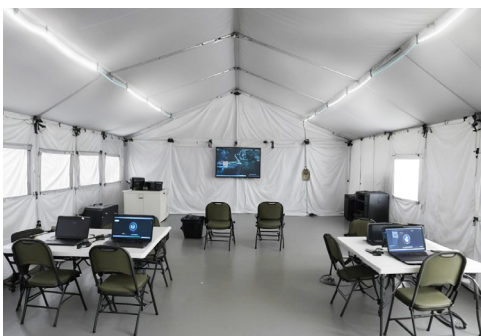
Equipped with a user-friendly toggle switch, the TALIS seamlessly transitions between white and blackout lighting, allowing users to fine-tune brightness using the convenient dimmer control. Our patented Single Strand integrates white and blackout lighting into a single string and is built to IP67 standards ensuring durability and reliability. The TALIS was designed to operate even if a section becomes damaged. Power will flow through the light bypassing the damaged section.

The TALIS is Berry-Amendment compliant and manufactured in the USA. It is an excellent, bright solution for new shelter lighting or a perfect replacement for existing LED or fluorescent lighting systems. TALIS is a lighting product that meets your demanding needs.

TALIS Features



- Reduced Size, Weight, Power and Cost (Improved SWaP-C)
- Integrated white and blackout lighting into 1 single strand of light
- Patented lighting designed to operate if a section becomes damaged
- Flexibility allows implementation of light where needed
- Replacement or upgrade for existing LED or fluorescent lighting
- Even light distribution without bright spots
- Brighter than competitive light systems
- Low thermal signature
- Manufactured in the USA
- For medical applications, our blackout wavelength provides medical personnel an ability to distinguish between blood and other bodily fluids in blackout conditions
- Operates via a standard BB-2590/U battery (With optional Frontline Battery Cable)

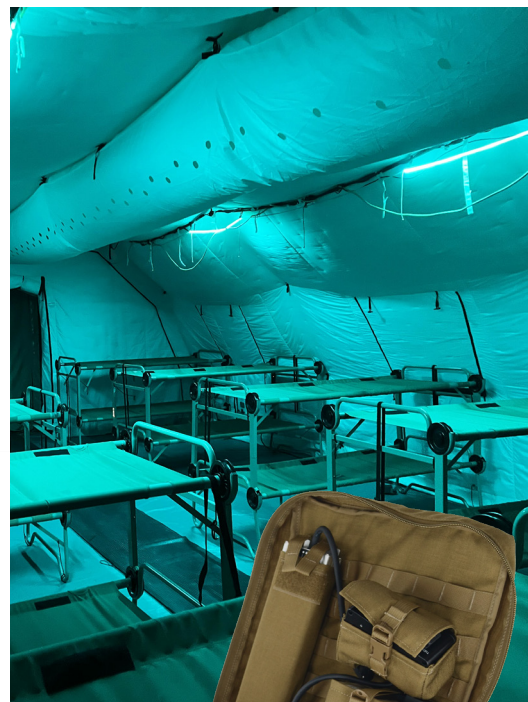


TALIS White



Employing the latest LED technology the TALIS system is a step ahead of other lighting products.

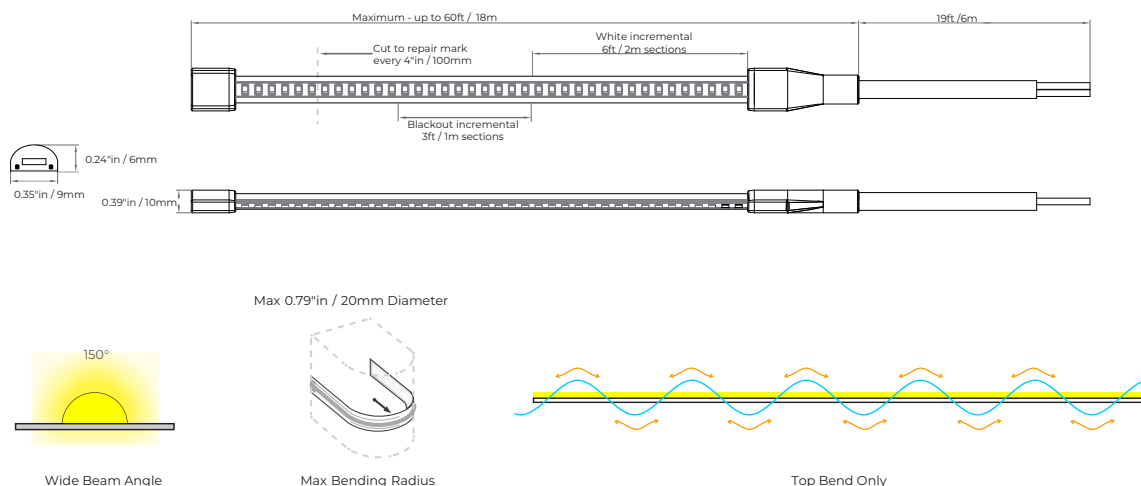
TALIS Blackout



The patented Single Strand Flex (SSF) integrates white and blackout lighting into one single strand



Dimension / Diagram



Variations

Model No.	Number and Length of SSF	Total	Available in
	SYSTEM LIGHT DESCRIPTION	TOTAL LENGTH	White W+Blue-Green
TALIS - 1 - 3M	1 length of 3m TALIS light	10ft / 3m	● ●
TALIS - 2 - 6M	2 lengths of 6m TALIS light	39ft / 12m	● ●
TALIS - 2 - 9M	2 lengths of 9m TALIS light	59ft / 18m	● ●

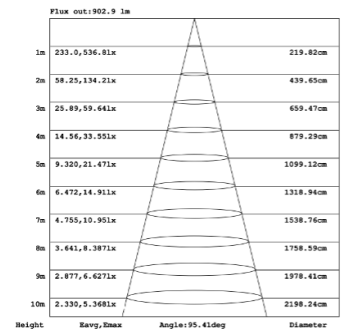
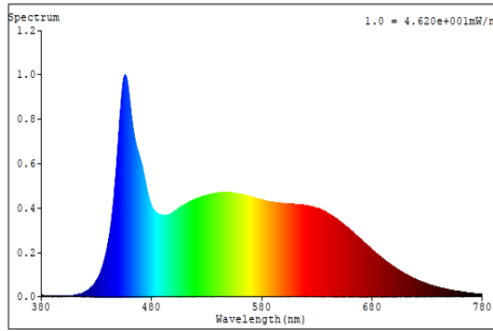
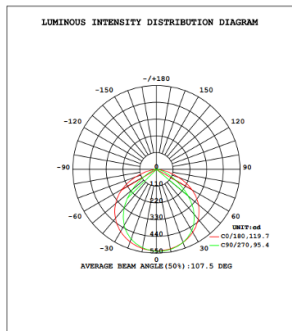
All systems are capable of expansion. Custom lengths are available. Total MAX length for all systems is 59ft / 18m

Technical Specifications

Specifications	TALIS - 1 - 3M	TALIS - 2 - 6M	TALIS - 2 - 9M
	LIGHT: White - (W) Blue-Green - (BG)		
Voltage	24VDC	24VDC	24VDC
Amerage	1A (W) 0.5A (BG)	4.0A (W) 2.0A (BG)	6.0A (W) 3.0A (BG)
Lumens	2665lm (W) 630lm (BG)	10660lm (W) 2519lm (BG)	15990lm (W) 3778lm (BG)
Bag Dimensions			
Inches (L x W x H)	12" x 13" x 5" in	12" x 13" x 5" in	12" x 13" x 5" in
Metric (L x W x H)	305 x 330 x 127mm	305 x 330 x 127mm	305 x 330 x 127mm
System Weight	8.8lbs 4kgs	9.8lbs 4.5kgs	11.8lbs 5.3kgs
Operating Temp°			
Fahrenheit	(UL 62) -40° ~ 120° F	(UL 62) -40° ~ 120° F	(UL 62) -40° ~ 120° F
Celsius	(UL 62) -40° ~ 49° C	(UL 62) -40° ~ 49° C	(UL 62) -40° ~ 49° C
Storage Temp°			
Fahrenheit	-50° ~ 160° F	-50° ~ 160° F	-50° ~ 160° F
Celsius	-45° ~ 71° C	-45° ~ 71° C	-45° ~ 71° C
Rated Life Hrs.	Light life ~ 50,000hrs	Light life ~ 50,000hrs	Light life ~ 50,000hrs
Warranty Period	1 Year	1 Year	1 Year

Testing conducted at US Army Combat Capabilities Development Command Soldier Center, Natick Massachusetts

White LED Characteristics



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.3217$ $y = 0.3351$ / $u' = 0.2018$ $v' = (duv=1.87e-03)$ $Dx, Dy: -0.0003, 0.0033$

CCT= 6002K Prcp WL: Ld=493.6nm Purity=3.8%

Peak WL: Lp=456nm FWHM: =28.5nm Ratio: R=16.0% G=77.1% B=7.0%

Render Index: Ra = 93.6 AvgR = 92.3 TM30:Rf=90 Rg=98

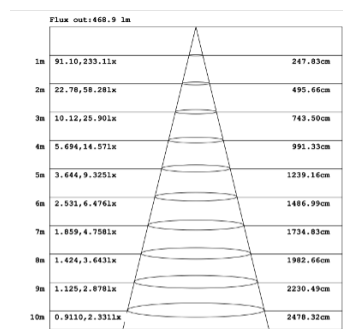
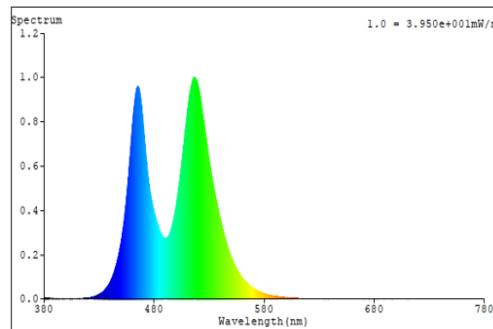
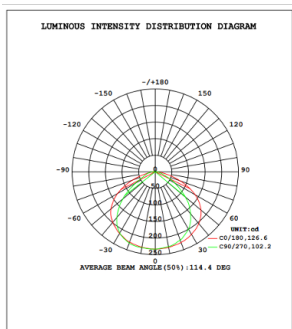
Photometric & Radiometric Parameters

Flux = 1484.5 lm Eff.: 126.40 lm/W Fe = 5.3618W

Electrical Parameters

V = 24.00 V I = 0.4894 A P = 11.74 W PF = 1.000 F = 0.00 Hz

Blackout LED Characteristics



Colorimetric Parameters

Chromaticity Coordinate: $x = 0.1411$ $y = 0.3651$ / $u' = 0.0795$ $v' = (duv=1.09e-01)$ $Dx, Dy: -0.1211, 0.0997$

CCT= 15817K Prcp WL: Ld=493.8nm Purity=63.0%

Peak WL: Lp=517nm FWHM: =32.3nm Ratio: R=0.2% G=89.3% B=10.5%

Render Index: Ra = 24.2 AvgR = 17.9 TM30:Rf=10 Rg=24

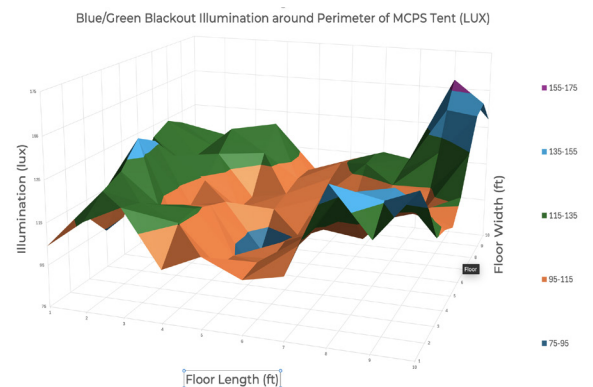
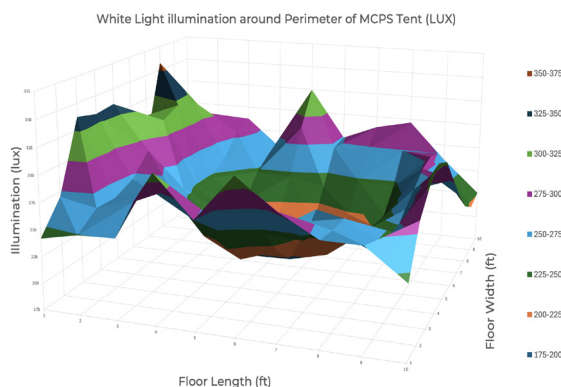
Photometric & Radiometric Parameters

Flux = 746.70 lm Eff.: 63.67 lm/W Fe = 2.4655W

Electrical Parameters

V = 24.00 V I = 0.4887 A P = 11.73 W PF = 1.000 F = 0.00 Hz

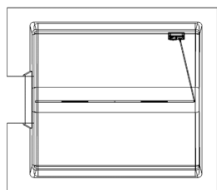
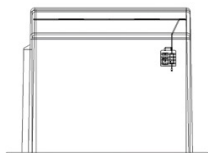
Mapping



Installation

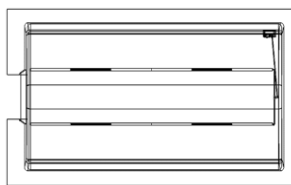
The single strand's adaptability allows for easy maneuverability, ensuring optimal positioning of light where needed. TALIS excels at providing exceptional light quality and eliminates bright spots or "dazzle effect"

TALIS - 1 - 3M



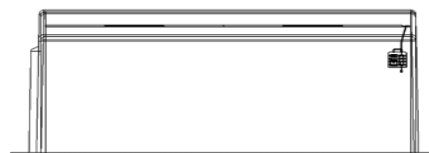
Estimated Coverage
11ft x 11ft / 3.3m x 3.3m
 Suitable for small to medium shelter sizes.

TALIS - 2 - 6M



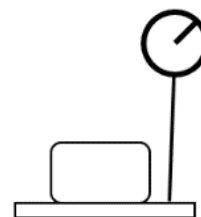
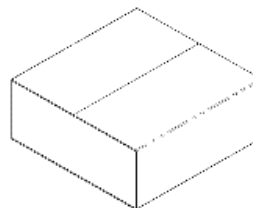
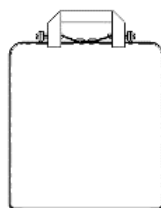
Estimated Coverage
20ft x 21ft / 6m x 6.5m
 Suitable for medium to large shelter sizes.

TALIS - 2 - 9M



Estimated Coverage
32ft x 30ft / 9.5m x 9m
 Suitable for Large shelter sizes.

Packaging



Model No.	Light Length	Bag Size (in / mm)	Package Dimensions	Shipping Weight
TALIS - 1 - 3M	1 x 3 Meters	12 x 13 x 5" in	12 x 13 x 5" in	9.8lbs / 4.5kg
TALIS - 2 - 6M	2 x 6 Meters	305 x 330 x 127mm	305 x 330 x 127mm	10.8lbs / 4.9kg
TALIS - 2 - 9M	2 x 9 Meters			12.8lbs / 5.8kg