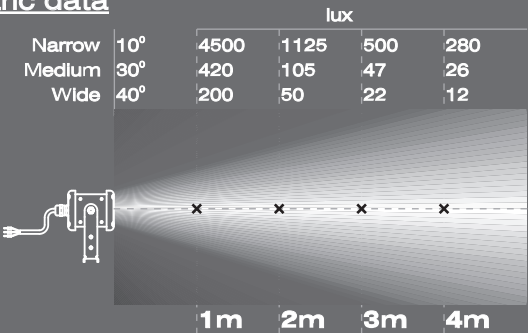


LED lamp series “Q”

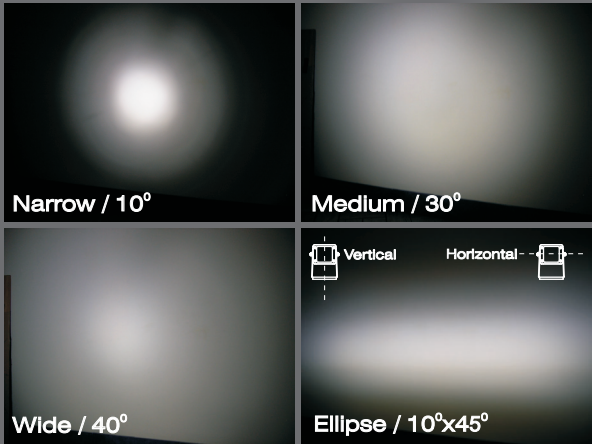
Modifications / Order codes

Mod. code	Narrow / 10°	Medium / 30°	Wide / 40°	Ellipse / 10°x45° Horizontal or Vertical	Cool White LEDs	Neutral White LEDs
CL-LSQ-01	●				○○	
CL-LSQ-02		●			○○	
CL-LSQ-03			●		○○	
CL-LSQ-04				H	○○	
CL-LSQ-05	●					●●
CL-LSQ-06		●				●●
CL-LSQ-07			●			●●
CL-LSQ-08						●●
CL-LSQ-09	●			H	○	
CL-LSQ-10		●			○	
CL-LSQ-11				V	○○	

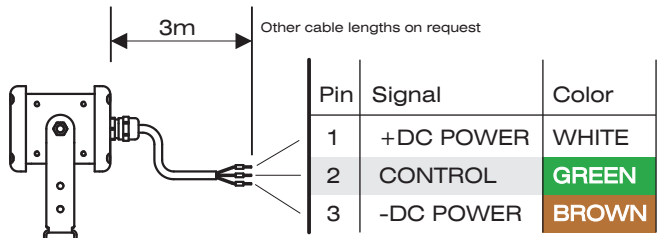
Photometric data



Light spots



Electrical connection



Power supply: DC 15V...35V
Current consumption: 150mA @ 24VDC

NOTE: For overvoltage protection 39V use fused power line.

Mounting

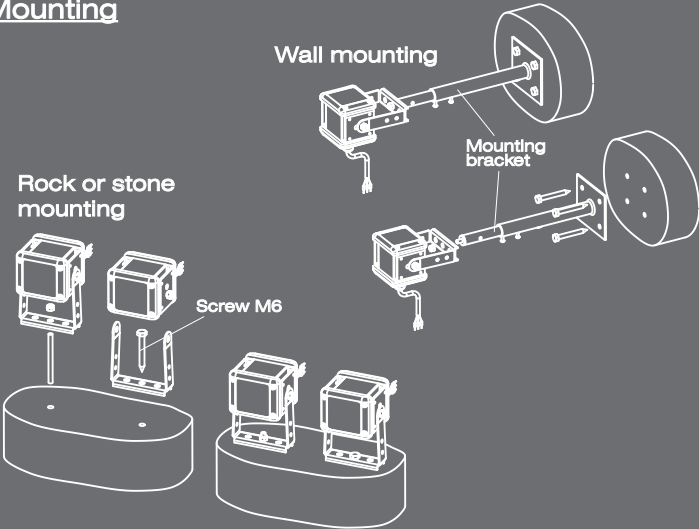
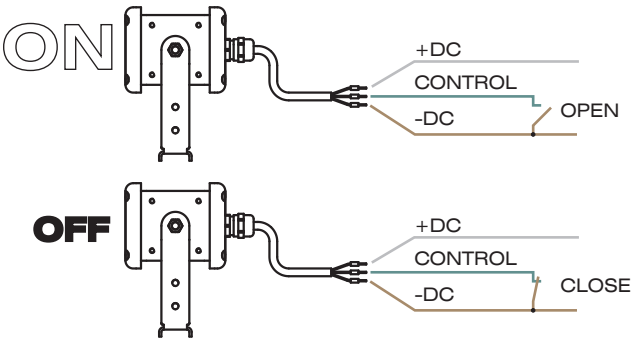


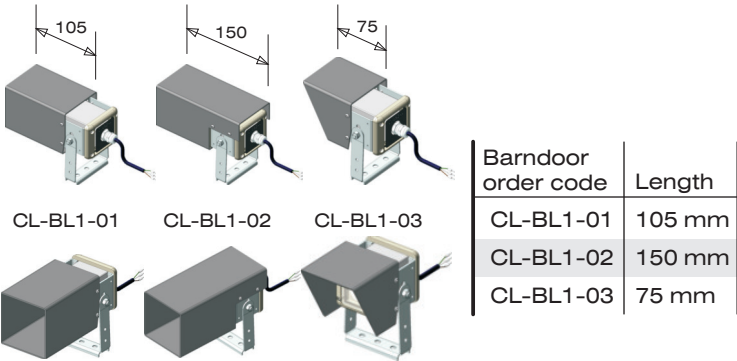
Photo gallery



PWM dimming control



Barndoor accessories
ordered separately

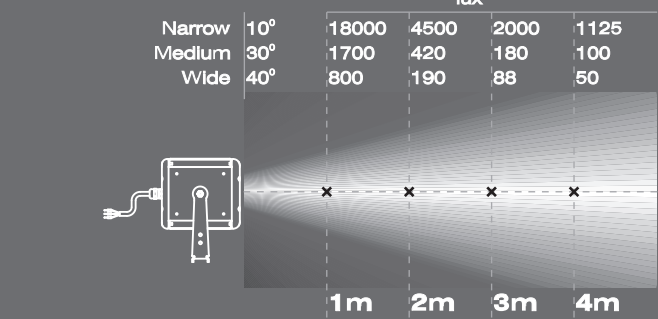


LED power lamp series “QP”

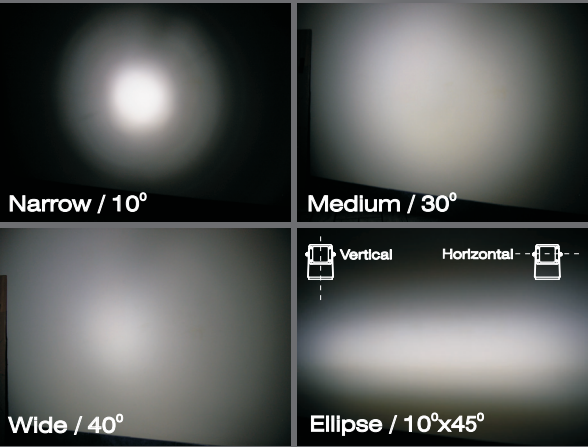
Modifications / Order codes

Code	Optics	Color	Power supply	Control
CL-LQP-01	Narrow-10°	Cool	DC	PWM
CL-LQP-02	Medium-30°	Cool	DC	PWM
CL-LQP-03	Wide-40°	Cool	DC	PWM
CL-LQP-04	Horiz. Ellipse-10°x45°	Cool	DC	PWM
CL-LQP-05	Narrow-10°	Cool	AC	
CL-LQP-06	Medium-30°	Cool	AC	
CL-LQP-07	Wide-40°	Cool	AC	
CL-LQP-08	Horiz. Ellipse-10°x45°	Cool	AC	
CL-LQP-09	Narrow-10°	Cool	DC	DMX
CL-LQP-10	Medium-30°	Cool	DC	DMX
CL-LQP-11	Wide-40°	Cool	DC	DMX
CL-LQP-12	Horiz. Ellipse-10°x45°	Cool	DC	DMX
CL-LQP-13	Narrow-10°	Neutral	DC	PWM
CL-LQP-14	Medium-30°	Neutral	DC	PWM
CL-LQP-15	Wide-40°	Neutral	DC	PWM
CL-LQP-16	Horiz. Ellipse-10°x45°	Neutral	DC	PWM
CL-LQP-17	Narrow-10°	Neutral	AC	
CL-LQP-18	Medium-30°	Neutral	AC	
CL-LQP-19	Wide-40°	Neutral	AC	
CL-LQP-20	Horiz. Ellipse-10°x45°	Neutral	AC	
CL-LQP-21	Vert. Ellipse-10°x45°	Cool	DC	PWM
CL-LQP-22	Vert. Ellipse-10°x45°	Cool	AC	
CL-LQP-23	Vert. Ellipse-10°x45°	Neutral	DC	PWM
CL-LQP-24	Vert. Ellipse-10°x45°	Neutral	AC	

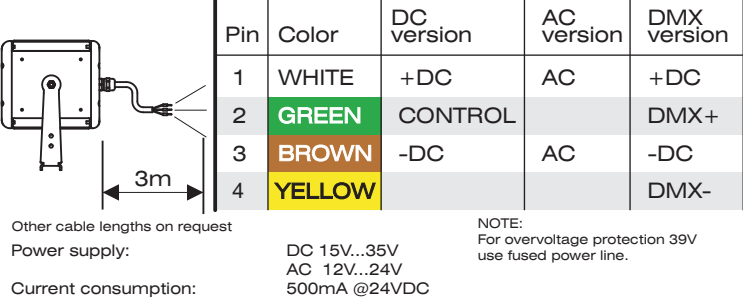
Photometric data



Light spots

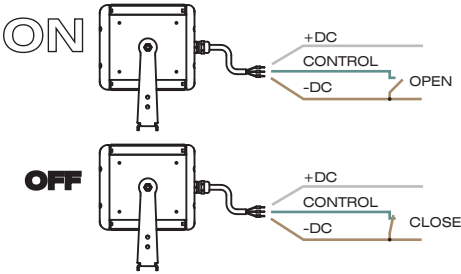


Electrical connection

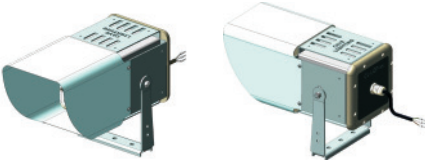


PWM dimming control

NOTE: For AC powered version the dimming control not supported



Barndoor accessories
ordered separately



Mounting

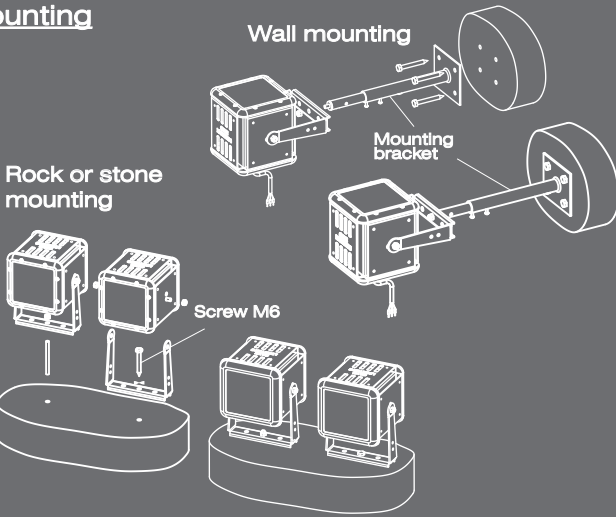


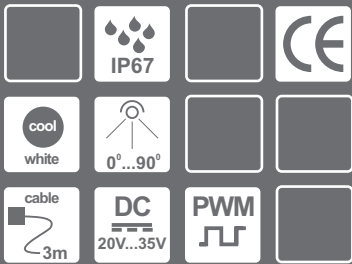
Photo gallery



LED light sources

CL-LST-xx

Features



Linear LED lamp series “T”



The **Cave Lighting™** low-profile linear luminaire series **CL-LST-xx** is a LED luminaire specially designed for lighting applications at show caves and other outdoor solutions for a difficult natural conditions.

The linear LED luminaire series “T” could be installed into GRP hand rails and provide soft light for the pathes. This compact lighting fixture includes a variable angle mounting bracket allowing up to 180 degree rotation and adjustable light slot allows to configure the illuminated conditions. The LED placement, optics and barndoors provide seamless light between linear sections. Advanced LED drive circuitry and thermal management ensure a long operating life upwards of 70,000 hours.

The **CL-LST-xx** reliable performance and creative design makes it a perfect outdoor LED lighting solution not only for show caves applications.

It can be powered by DC power supplies: **CL-PR1-xx** or **CL-PS1-xx** and controlled over **CL-CN1-xx** LED lamp control units.

Specification

HOUSING

Waterproof housing enclosed in polycarbonate or PMMA clear tube 20mm diameter with adjustable linear barndoors. Protected for weather and corrosion resistant.

IP rating:up to IP67

LIGHT SOURCE

LED source SMD, 20 mA
Number of LED sources 10
Total source power 1 W @ 24V
Light efficiency 20 lm / W
Rated lifetime 70 000 h

Colors ○ COOL WHITE 6300 K
other colors (NEUTRAL, WARM WHITE, RED, GREEN, BLUE) ... on request

OPTICS

Light output angle closed ...90°

POWER SUPPLY

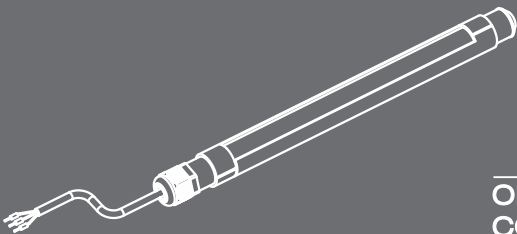
LED power supply internal constant current regulator
Luminary power supply DC 20...35V
Current consumption 40 mA
Connection type cable / 3m or requested
Cable type 3 x 0,5 mm²
Cable diameter 5 mm
Dimming control PWM external
Protection polarity reversal

OPERATING CONDITIONS

Temperature -25°C...+45°C
Humidity..... 100%

MECHANICAL

Dimensions, mm..... 287 x 24
Weight 250 g

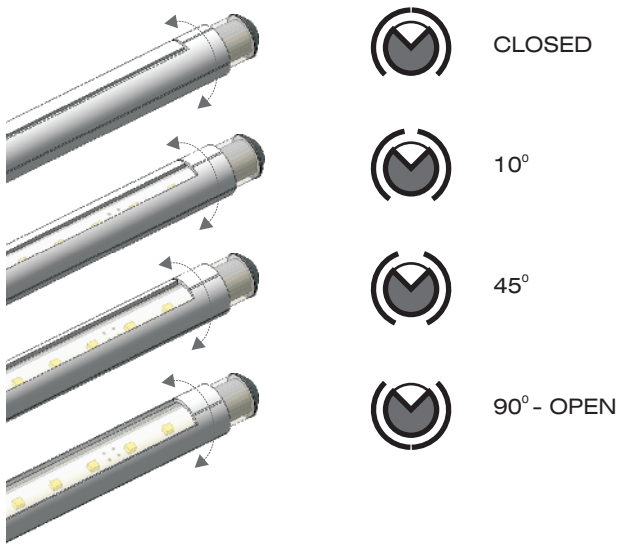


Linear LED lamp series “T”

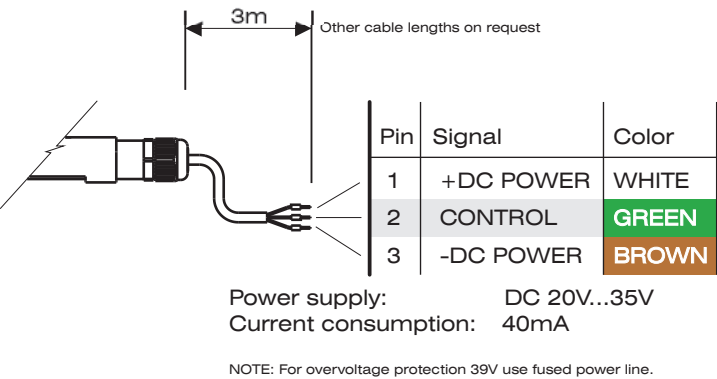
Modifications / Order codes

Order code	Description
CL-LST-01	Linear LED lamp, Cool White, 280 mm

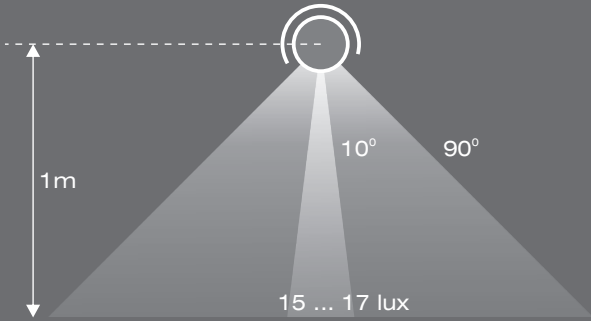
Barndoor adjustment



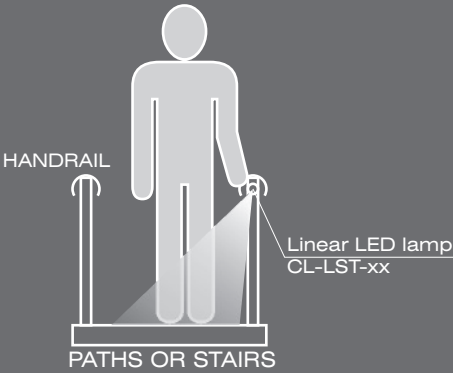
Electrical connection



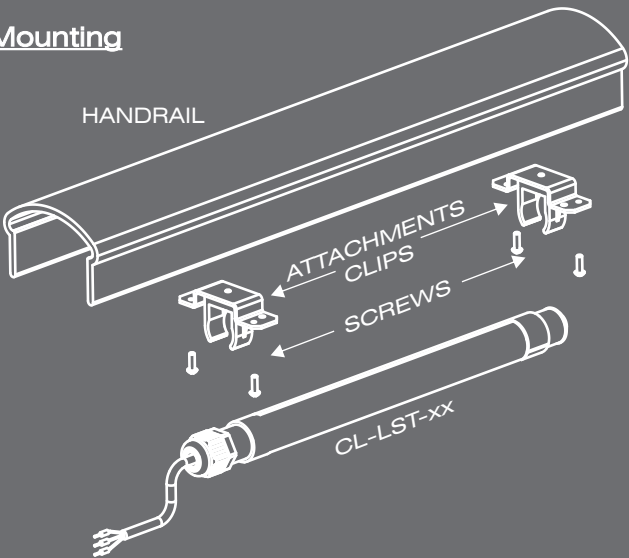
Photometric data



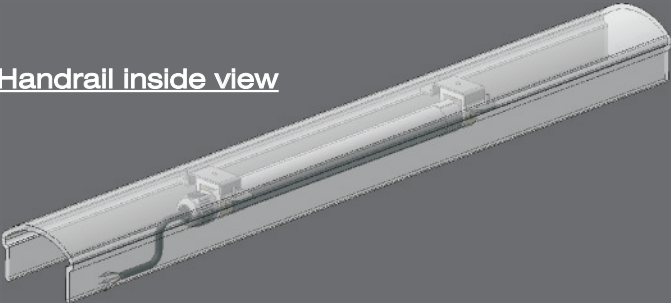
Application



Mounting



Handrail inside view



PWM dimming control

