

PL TR1 White Floodlight



Ideal for studio applications the PL TR1 White Floodlight features tunable white light which can be adjusted for a variety of colour temperatures from tungsten to daylight. This compact and powerful luminaire is popular as a fill light and a set light both in the studio and on location.

Its low power consumption and heat demands reduce energy and air conditioning loads.

Combine this performance with exceptional LED life and you have an ideal choice for high quality studio lighting; display and presentation lighting.

This rental-friendly luminaire offers ease of installation and control, along with the ability to produce high-quality white light with a temperature range of 2700° K to 6500° K.

Features

23° Beam Angle (1469 Lumens)
10° Beam Angle (1679 Lumens)
Note: Lumen measurement complies with IES LM-79-08 testing procedures.

Channels of warm white and cool white LEDs produce colour temperatures ranging from 2,700° K to 6,500° K. You can adjust luminaire brightness while varying or maintaining constant colour temperature.

The included 23° soft-focus and 10° clear tempered glass spread lenses allow you to switch quickly between soft-edge wash lighting and extended beam projection.

The pre-assembled mounting base offers a range of options for mounting on the floor or various stage truss clamps.

An integral safety bracket lets you attach the supplied safety cable.

A compensation circuit prevents damage to the luminaire if operating temperatures rise to unsafe levels. An auto-cycling feature automatically restores normal operation after 30 minutes.

Because stage and set environments can take their toll on equipment, the PL TR1 White Floodlight features an innovative elastomeric sleeve to protect the luminaire and lens from the rigors of multiple setups and teardowns.

Output

Colour Temperature:
2700°K (+/- 145) – 6500°K (+/- 275).

Efficacy (Lm / W):
29.4 (23° beam angle) 33.6 (10° beam angle).

Mixing Distance: 152mm to uniform light.

CRI: 83 all, 83 warm, 74 cool.

Lumen Maintenance:
70,000 hours L70 @ 25° C (typical application).
(For specific applications, see Lumen Maintenance on page 2).

Electrical

Input Voltage: 24 VDC via specified power supply.

Power Consumption:
50W maximum at full output, steady state.

Control

Interface: Power supplies as specified.

Control System: the PL TR1 White Floodlight works seamlessly with the full range of Philips DMX controllers including Light Palette, Palette VL, 100+, 200+, or any third-party DMX controller.

Certification & Safety

Certification: UL / cUL, FCC Class B, CE.

LED Class: Class 2 LED product.

Environment: Dry location, IP20.

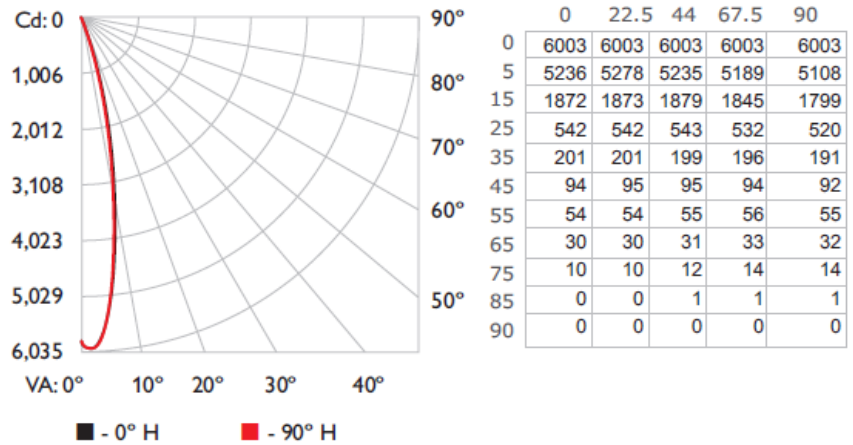
Photometric Data

Photometric data is based on test results from an independent NIST traceable testing lab. IES data is available at www.seleconlight.com/ies

PL TR1 White Floodlight 23° beam angle in Fc

Power Consumption	50W
Lumens	1469
Efficacy	29.4 Lm/W

Polar Candela Distribution:



Lumen Maintenance

The table below details the specific lumen maintenance values per application. Temperature value represents the luminaire's ambient operating temperature.

Warm	L50*	L70*
@ 25°C	100,000+ hours	90,000 hours
@ 50°C	90,000 hours	70,000 hours
Cool	L50*	L70*
@ 25°C	100,000+ hours	90,000 hours
@ 50°C	90,000 hours	70,000 hours
Full	L50*	L70*
@ 25°C	90,000 hours	70,000 hours
@ 50°C	68,000 hours	45,000 hours

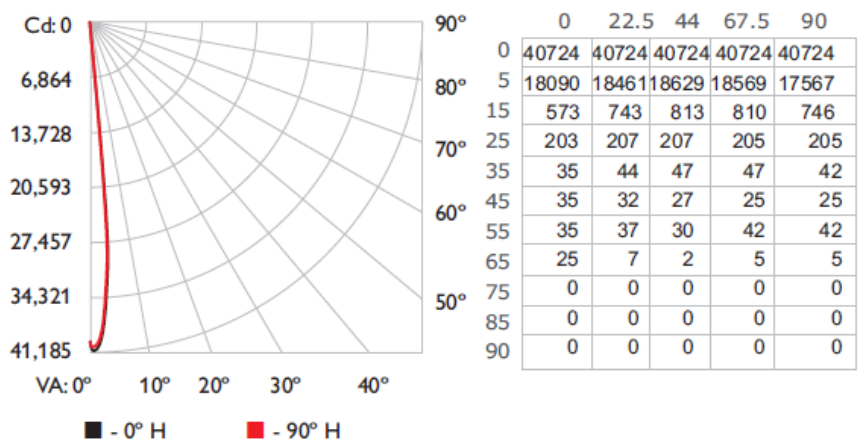
* L50 = 50% maintenance of lumen output. (When light output drops below 50% of initial output.)

* L70 = 70% maintenance of lumen output. (When light output drops below 70% of initial output.)

PL TR1 White Floodlight 10° beam angle in Fc

Power Consumption	50W
Lumens	1679
Efficacy	33.6 Lm/W

Polar Candela Distribution:



For Lux please multiply Fc by 10.7

Physical Data

Dimensions (H x W x D): 203mm x 343mm x 66mm

Weight: 2.9kg

Housing: Die-cast aluminium, powder-coated black finish

Lenses:

10° – clear glass 23° – frosted glass

Luminaire Connections: 1.8m power / data cable with 4-pin XLR connector

Temperature

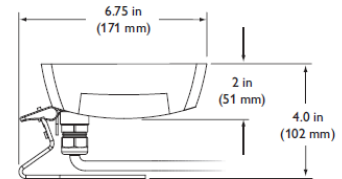
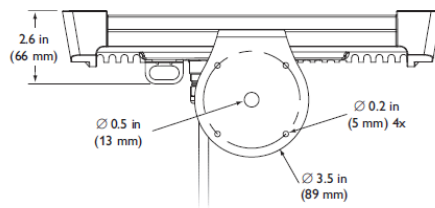
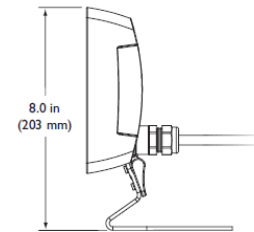
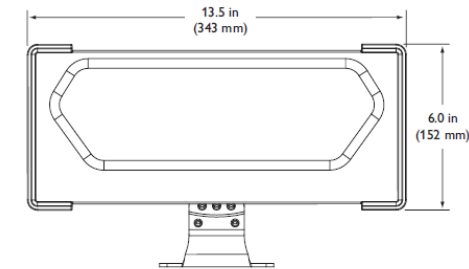
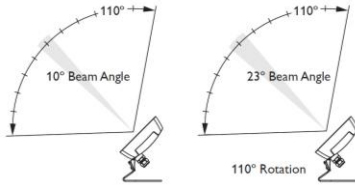
-40° – 122° F (-40° – 50° C) Operating

-4° – 122° F (-20° – 50° C) Start-up

Humidity: 0 – 95%, non-condensing

Maximum Cable Length: Up to 16.5m extension for total of 18.3m maximum

Included in the box: PL TR1 White Floodlight luminaire with 1.8m power cable; frosted glass 23° lens; clear glass 10° lens; protective elastomeric sleeve; 3/16 in hex key wrench; safety bond; installation instructions.



Ordering Information

Code	Description
PLTR1W	PL TR1 White 10° Floodlight, comes with 23° spread lens; 1.8m fitted cable. Accessory holder required for barndoor and other glass or holographic lens accessories. Requires PSU - refer below.
PLTR1PS12PM	PDS750 Pipe Mount 12 way Power Supply.
PLTR1PS12RM	PDS750 Rack Mount 12 way Power Supply.
PLTR1PS6	PDS375 TR 6 Way Power Supply.
PLTR1AH	Accessory Holder.
PLTR1HL	36/50 ° Horizontal Spread Lens.
PLTR1SL	40° Spread Lens.
PLTR1GD	Gel Diffuser.
PLTR1EC	Egg Crate.
PLTR1TH	Top Hat.
PLTR1HTH	1/2 Top Hat.
PLTR1BD	Barndoor.

Accessories

Designed specifically for the PL TR1 White Floodlight, accessories provide additional options for controlling and dispersing light. Accessory holders screw to the side of the luminaire and are required for mounting accessories. Accessory holders prevent accessories from falling out if the luminaire is tipped or hung upside down.

NOTE: You must remove the luminaire's protective sleeve before you can attach the accessory holder. Reinstall the protective sleeve after use.

	Item	Type
	Accessory Holders	Black (dry / damp / wet location)
	Half Top Hats	Black (dry / damp / wet location)
	Top Hats	Black (dry / damp / wet location)
	Egg Crate Louvers	Black (dry / damp / wet location)
	Barndoors	Black (dry / damp / wet location)
	Horizontal Spread Lens	36 / 50°
	Horizontal / Vertical Spread Lens	40° / 40°

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