Connector

High Intensity LEDs

Warranty	Compliant	Compliant	Rated	Connector Available
3 YEAR	**IEC** 62471	**CE** RoHS	**IP** 50	5-PIN M12

PRODUCT HIGHLIGHTS

- ✓ Easily slides in T-Slot extrusion
- ✓ Direct connect up to 6 units
- ✓ Easy install with male and female push together connector

PRODUCT DESCRIPTION

The TSLOT300 Series of lights are an extrusion adaptive LED light illuminator with an intense and uniform light pattern that offers considerable energy savings over fluorescent lighting options. Mounting is easy, in that the TSLOT300 unit slides into the extrusion with no need for extra mounting accessories. The ability to direct-connect up to six module lengths of 300 mm to 1800 mm is achievable in 300 mm increments

PRODUCT SPECIFICATIONS

|	
Electrical Input	24VDC +/−5%
Input Current	Max. 500 mA *Each*
Wattage	Max. 12 W
Analog Intensity	Available when used with Dimmer Module
Connection	5-pin M12 connector available with M12 Adapter
Ambient Temperature	-18º–40ºC(0º–104ºF)
IP Rating	IP50
Weight	~34g
Compliances	CE, RoHS, IEC 62471
Extrusion Compatibility	Compatible with most 8 mm and 10 mm channel TSLOT aluminum extrusions including: 80/20, Bosch, Item, RoboUnits, and more.
Warranty	3 years. For complete warranty information, visit smartvisionlights.com/warranty.

WIRING CONFIGURATION
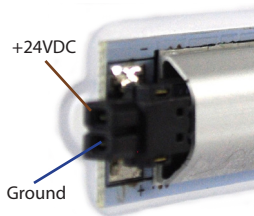
+24VDC

Ground

Pins	Function	Signal	Wire Color
1	Power In	+24VDC	BROWN
2	GND	Ground	BLUE

Note
Each TSLOT300 unit requires a +24VDC source with ground and has a maximum input current of 500 mA per light.

5-Pin M12 — Common — +24VDC

3-Pin M8 — Common — +24VDC
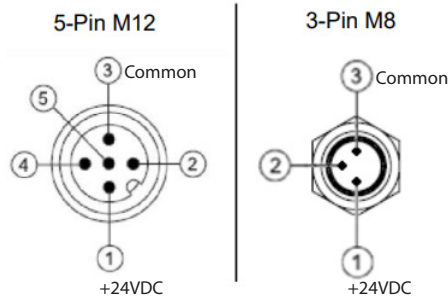
RESOURCE CORNER

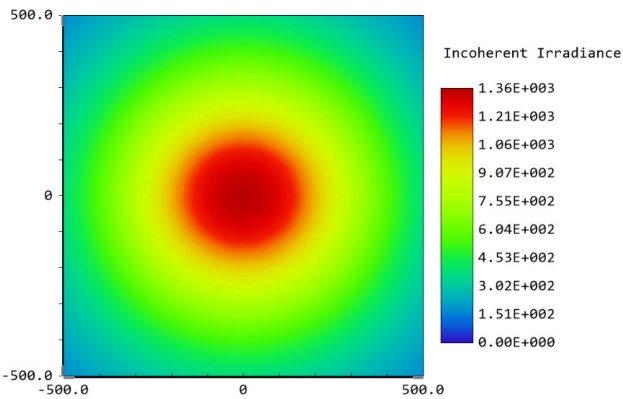Additional resources, including CAD files, videos, and application examples, are available on our website.

LIGHT PATTERNS

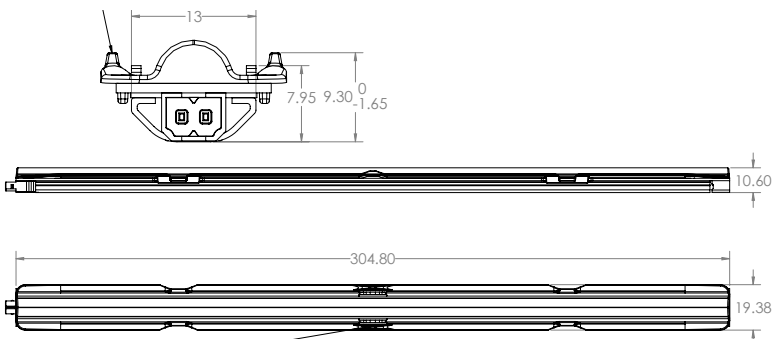| LIGHTING PATTERN FOR THE TSLOT300	
Working Distance mm (inches)	Pattern (80%–100% measured intensity) mm (inches)
500 mm (19.7")	406.4 mm (~16") H x 50.8 mm (~12") V
1000 mm (39.4")	762 mm (~30") H x 558.8 mm (~22") V
1500 mm (59.05")	1260 mm (~50") H x 860 mm (~34") V

Typical Output Performance	Illuminance (Lux)
Distance = 500 mm	1,410
Illuminance measurement taken on White Lights — 5,700 K	

Incoherent Irradiance

1.36E+003
1.21E+003
1.06E+003
9.07E+002
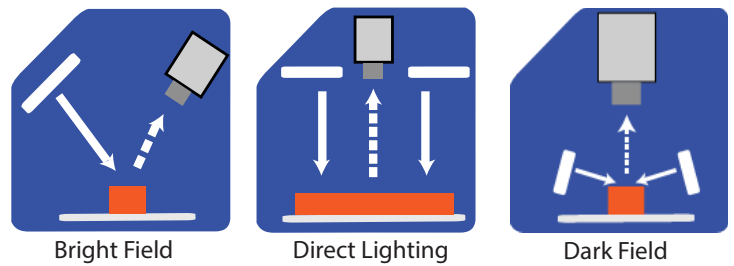7.55E+002
6.04E+002
4.53E+002
3.02E+002
1.51E+002
0.00E+000

PRODUCT DRAWING

CAD files available on our website.
Dimensions are in mm.

ILLUMINATION

TSLOT300 Series of Linear Lights works best for:

Bright Field   Direct Lighting   Dark Field

EYE SAFETY

According to IEC 62471 : 2006. Full documentation available upon request.

SMART VISION LIGHTS
IEC 62471
COMPLIANT

Notice

Exempt Group: No photobiological hazard to eyes or skin even for continuous, unrestricted use. Applicable for wavelengths: 470, 560, 625, and WHI.
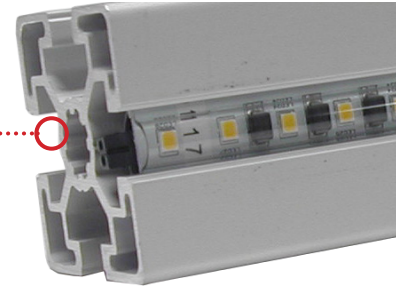
MOUNTING

Mounting options include three TSLOT300 (two along the sides and one along the bottom) on the LHF300 fluorescent replacement light.

Optional Mounting Hardware:
TSLOT300 = M5 x 0.8 mm T-Nut

TSLOT300 slide into extrusions.

PART NUMBER

TSLOT300 – ☐☐☐ – ☐

COLOR:
WHI 470
560 625

TEMPERATURE:
4.0K = 4000K (White light only)
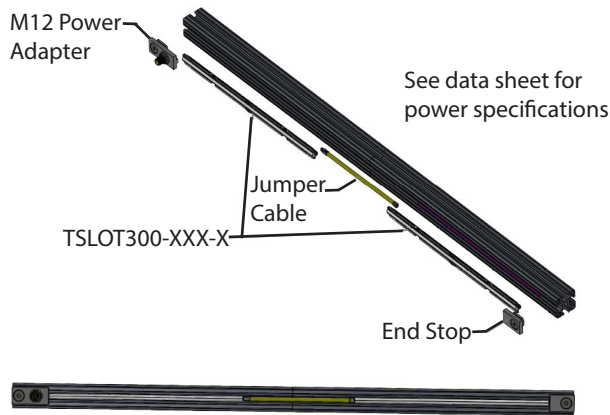6.0K = 6000K (White light only)

Part Number Examples:
**TSLOT300-WHI-4.0K**   TSLOT300, White, 4000K
TSLOT300-470   TSLOT300, Blue

DAISY-CHAIN LIGHTS

The TSLOT300 lights require the use of 2-Pin TSLOT Jumper Cable to effectively parallel up to six TSLOT300 lights.

M12 Power Adapter

See data sheet for power specifications

Jumper Cable

TSLOT300-XXX-X

End Stop

DIRECT CONNECT

The TSLOT300 light has the ability to direct-connect up to six module lengths of 300 mm to 1800 mm is achievable in 300 mm increments.
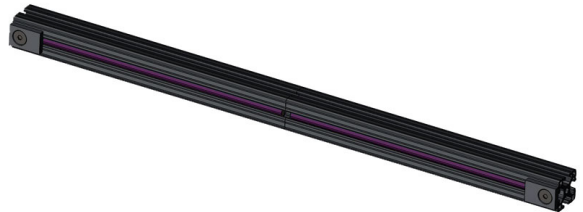
ACCESSORIES

2-Pin TSLOT Jumper Cable

Length*	Part Number
6 in	TSLOT300-22-CR-6
8.5 in	TSLOT300-22-CR-8.5
12 in	TSLOT300-22-CR-12

*Custom lengths are available.
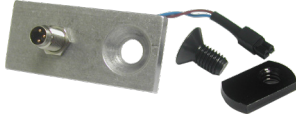
TSLOT M12 Pigtail Connector

Description	Part Number
For connection around extrusion corners	5PM12-22P

End Stop

Description	Part Number
Extrusion End Stop	TSLOT300-ENDSTOP

M8 Power Adapter

Description	Part Number
Power Adapter	M8-TSLOT300-ADP

M12 Power Adapter
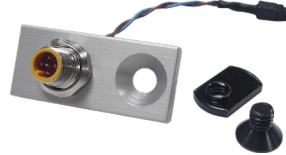
Description	Part Number
Power Adapter	M12-TSLOT300-ADP

Dimmer Module

Description	Part Number
Dimmer	TSLOT-DIM

Power Adapters **

Description	Part Number
AC, 24 V, 1.7 A	T1 Power Supply
24 V DC, 9 A / AC input	T2 Power Supply

** **European Versions Available** (Add "-EURO" to end of T1. Ex: T1-EURO Power Supply.)

T1 Power Supply can power up to three lights.
T2 Power Supply can power up to a maximum of six lights. Must use either TSLOT M12 Pigtail Connector or M12 Power Adapter.

GLOSSARY

This glossary covers all Smart Vision Lights product families; some content in this section may not apply to this specific light.

TERMINOLOGY

OverDrive™ Lights include an integrated high-pulse driver for complete LED light control.

Continuous Operation Lights stay on continuously.

Multi-Drive™ Combines continuous operation and OverDrive™ strobe (high-pulse operation) mode into one easy-to-use light.

Built-in Driver The built-in driver allows full function without the need of an external controller.

Camera to Light Connecting the light directly to the camera, without the need for additional controllers or equipment.

Polarizers Filters that reduce reflections on specular surfaces.

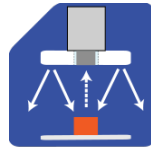**Diffuser** Used to widen the angle of light emission, reduce reflections, and increase uniformity.
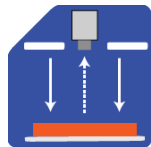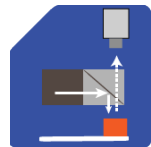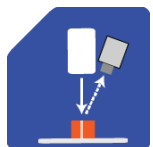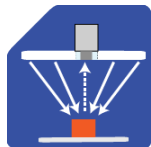
TYPES OF ILLUMINATION
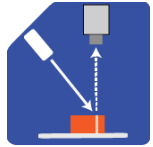
Projector
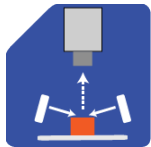
Dark Field

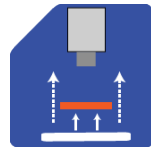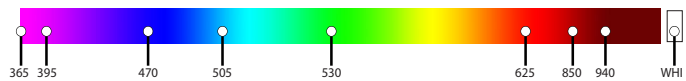Radial

Bright Field

Direct

Axial

Line

Diffuse Panel

Backlight

COMMON COLOR/WAVELENGTHS LEGEND

Wavelengths options range from 365 nm to 1550 nm.*
Additional wavelengths available for many light families.

365 395 470 505 530 625 850 940 WHI

See Part Number section for **this light's available standard wavelengths.*

SWIr SHORTWAVE INFRARED

Shortwave Infrared LEDs are available in 1050 nm, 1200 nm, 1300 nm, 1450 nm, and 1550 nm.*

Check Part Number section to see if **this light is available in SWIR wavelengths.*