Athens LED Tapelight Specifications

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Athens is a flexible tape light manufactured in Sheet-to-Sheet method using intelligent design and high-quality components. Osram LEDs and gold-plated solder pads guarantee uniform light levels even with longer run lengths up to 26'. Dimmable with all common dimming protocols. Discharge protection with CRI 90+.

This hydrophobic, plasma-enhanced and super-thin coating enhances the durability of this tape light without the problems that Silicone or Polyurethane coatings bear. Applied under vacuum condition in condensation method.

- Moisture resistance: water and many other organic substances have no effect on this coating
- No light loss: same lumen output as the IP00 tape
- No shift in color temperature: CCTs stay the same as with the IP00 tape
- No temperature increase: no heat build-up as in encapsulated products guarantees longer lifetime and quality stability.

Technical Information

LM 80 | CRI 90+ | c UL us LISTED | RoHS | JA8 TITLE 24

Product	CCT	Output (lm/ft)	LEDs/ft	Consump. (watt/ft)	Efficacy (lm/watt)	CRI	Voltage	Max run length	Cut increment
L240	2700K	~ 240	36	2.29	~ 105	>90	24V	39'	1.97"
	3000K	~ 255	36	2.29	~ 110	>90	24V	39'	1.97"
	3500K	~ 260	36	2.29	~ 115	>90	24V	39'	1.97"
	4000K	~ 270	36	2.29	~ 115	>90	24V	39'	1.97"
L460	2700K	~ 445	36	4.27	~ 105	>90	24V	26'	1.97"
	3000K	~ 480	36	4.27	~ 110	>90	24V	26'	1.97"
	3500K	~ 490	36	4.27	~ 115	>90	24V	26'	1.97"
	4000K	~ 510	36	4.27	~ 120	>90	24V	26'	1.97"
L680	2700K	~ 590	36	6.40	~ 95	>90	24V	13'	1.97"
	3000K	~ 615	36	6.40	~ 100	>90	24V	13'	1.97"
	3500K	~ 665	36	6.40	~ 105	>90	24V	13'	1.97"
	4000K	~ 685	36	6.40	~ 110	>90	24V	13'	1.97"

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Tapelight Ordering Codes

Example: A-L240IP66CT27-4'
(Athens, ~240 lm/ft, Outdoor, 2700K, 4 ft)

Series		Output		IP Rating		Color Temperature		Run Length
A Athens	+	**L240** ~ 240 lm/ft **L460** ~ 460 lm/ft **L680** ~ 680 lm/ft	+	**IP00** Indoor **IP66** Outdoor	+	**CT27** 2700k **CT30** 3000k **CT35** 3500k **CT40** 4000k	+	Enter run length

Connectors

TL-CON
Connector

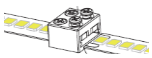
TL-LCON
L-Connector

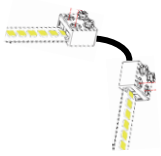
TL-JC02
2" Jumper Cable

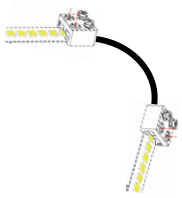
TL-JC12
12" Jumper Cable

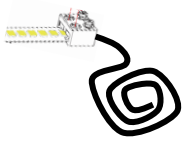
TL-PF48
48" Powerfeed

CON8x8-JC
Male/Female
Jumper Cable

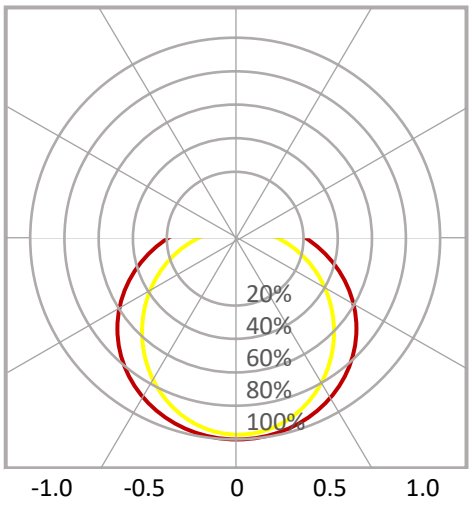








Photometric



Athens LED Tapelight Specifications

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Power Supply Ordering Codes

DTR	+	60	+	IP67	DTR60IP67 - Dimming, 60 Watt, IP67

MODEL		+	POWER		+	IP RATING		INPUT	OUTPUT	DIMENSION
NTR	Non-Dimming	50	50 Watt		IP00	Indoor		88-264V	24V	3.90 x 3.82 x 1.42
		75	75 Watt							5.08 x 3.82 x 1.50
		100	100 Watt							6.26 x 3.82 x 1.50
		150	150 Watt							7.84 x 3.85 x 1.50
		200	200 Watt							8.46 x 4.53 x 1.18
		320	320 Watt							8.46 x 4.53 x 1.18
		750	750 Watt							9.84 x 5.00 x 1.61
		960	960 Watt							11.60 x 5.00 x 1.61
		12	12 Watt		IP42	Indoor		90-264V	24V	3.03 x 1.57 x 1.14
		16	16 Watt							3.03 x 1.57 x 1.14
		25	25 Watt							3.31 x 2.24 x 1.16
		35	35 Watt							3.31 x 2.24 x 1.16
		20	20 Watt		IP67	Outdoor		90-264V	24V	4.65 x 1.38 x 1.02
		35	35 Watt							5.83 x 1.57 x 1.18
		60	60 Watt							6.40 x 1.67 x 1.26
		100	100 Watt							7.48 x 2.05 x 1.46
		150	150 Watt							7.52 x 2.48 x 1.48
		240	240 Watt							9.61 x 2.68 x 1.53
		320	320 Watt							9.92 x 3.54 x 1.72
DTR	Dimming min 10% (0-10V)	16	16 Watt		IP30	Indoor		90-305V	24V	5.83 x 1.57 x 1.26
		25	25 Watt		IP67	Outdoor		90-305V	24V	5.83 x 1.57 x 1.26
		40	40 Watt							6.40 x 1.70 x 1.26
		60	60 Watt							6.40 x 1.70 x 1.26
		90	90 Watt							6.34 x 2.40 x 1.42
		96	96 Watt							8.66 x 2.68 x 1.53
		120	120 Watt							8.66 x 2.68 x 1.53
		150	150 Watt							8.97 x 2.68 x 1.58
		185	185 Watt							8.97 x 2.68 x 1.58
		240	240 Watt							9.88 x 2.68 x 1.58
		320	320 Watt							9.92 x 3.54 x 1.72
		480	480 Watt							10.32 x 4.92 x 1.72
		600	600 Watt							11.02 X 5.67 X 1.91
FPD	Dimming min 1% (Forward Phase)	20	20 Watt		IP67	Outdoor		120V	24V	4.92 x 2.20 x 0.79
		40	40 Watt							4.92 x 2.20 x 0.79
		60	60 Watt							4.92 x 2.20 x 0.79
		75	75 Watt							4.92 x 2.20 x 0.79
		96	96 Watt							4.92 x 2.20 x 0.79
FPD	Dimming min 1% (Forward Phase) with junction box	20	20 Watt		IP14	Outdoor		120V	24V	5.60 x 2.00 x 2.14
		40	40 Watt							5.60 x 2.00 x 2.14
		60	60 Watt							6.62 x 2.58 x 2.33
		96	96 Watt							6.62 x 2.58 x 2.33
		150	150 Watt							9.80 x 3.00 x 2.74
		200	200 Watt							9.80 x 3.00 x 2.74
		300	300 Watt							10.07 x 4.20 x 3.50

Athens LED Tapelight – Pixilation Chart

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Extrusion	+ Lens	A-L240	A-L460	A-L680
AA01	Satined Lens	∅	∅	∅
AA07	Satined Lens	◐	∅	n/a
AB02	Satined Lens	∅	∅	n/a
AC02	Satined Lens	∅	∅	∅
AD02	Satined Lens	∅	∅	∅
AG01	Satined Lens	∅	∅	∅
AL02	Satined Lens	●	●	n/a
BA02	Satined Lens	∅	∅	∅
BE01	Satined Lens	∅	∅	∅
CT01	Drop Lens	∅	n/a	n/a
CT02	Drop Lens	∅	n/a	n/a
CT06	Drop Lens	∅	∅	∅
JA01	Satined Lens	∅	∅	∅
JB01	Satined Lens	∅	∅	∅
JC01	Satined Lens	∅	∅	∅
JD01	Satined Lens	∅	∅	∅
JE02	Satined Lens	●	◐	n/a
JE02	Drop Lens	●	◐	n/a
JE04	Satined Lens	∅	∅	∅
JE08	Satined Lens	●	●	n/a
JE08	Drop Lens	∅	∅	n/a
JF04	Satined Lens	●	●	n/a
JF04	90° Satined Lens	∅	∅	n/a
JG04	Satined Lens	∅	∅	∅
JG04	90° Satined Lens	∅	∅	∅
JM02	Satined Lens	∅	∅	∅
JM02	Drop Lens	∅	∅	∅
LA01	Satined Lens	∅	∅	∅
LB03IN	Satined Lens	∅	∅	n/a
LB03OUT	Satined Lens	∅	∅	n/a
LC07	Satined Lens	∅	∅	∅
LD01	Satined Lens	∅	∅	∅
LE05	Satined Lens	∅	∅	∅
LF01	Satined Lens	∅	∅	∅
LH01	Satined Lens	∅	∅	∅
LH02	Satined Lens	∅	∅	∅
LH08	Satined Lens	∅	∅	∅
MA02	Satined Lens	∅	∅	∅
OM55	Satined Lens	∅	∅	∅
PH01	PMMA	∅	∅	∅
PH02	PMMA	∅	∅	∅
PH04	PMMA	∅	∅	∅
TM02	Satined Lens	∅	∅	∅
UT01	Satined Lens	∅	∅	∅
VT01	Satined Lens	∅	∅	n/a
VT02	Satined Lens	∅	∅	n/a
VT03	Satined Lens	∅	∅	∅
WT02	Satined Lens	∅	∅	∅
XT02	Satined Lens	∅	∅	∅
XT02	Drop Lens	∅	∅	∅
YT06	Satined Lens	●	●	∅
YT06	Drop Lens	∅	∅	∅

∅	No Pixilation
◐	Minor Pixilation
●	Has Pixilation
n/a	Not Applicable

Athens LED Tapelight – Compatibility

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Extrusion	Applications	L240	L460	L680
AA01	Recessed Flangeless	●	●	●
AA07	Under-Tile	●	●	∅
AB02	Surface Mount	●	●	∅
AC02	Surface Mount	●	●	●
AD02	Surface Mount / Pendant	●	●	●
AG01	Recessed Flangeless	●	●	●
AL02	Surface Mount / Pendant	●	●	∅
BA02	Surface Mount	●	●	●
BE01	Recessed	●	●	●
CT01	Recessed	●	∅	∅
CT02	Surface Mount	●	∅	∅
CT06	Closet Rod	●	●	●
JA01	Recessed Flangeless	●	●	●
JB01	Recessed Flangeless	●	●	●
JC01	Recessed Flangeless	●	●	●
JD01	Recessed Flangeless	●	●	●
JE02	Surface Mount	●	●	∅
JE04	90° / Corner	●	●	∅
JE08	Recessed	●	●	∅
JF04	90° / Corner	●	●	∅
JG04	90° / Corner	●	●	●
JK02	Surface Mount	●	●	●
JM02	Surface Mount / Pendant	●	●	●
LA01	Recessed	●	●	●
LB03IN	Recessed Flangeless	●	●	∅
LB03OUT	Recessed Flangeless	●	●	∅
LC07	Surface Mount	●	●	●
LD01	Perimeter / Cove	●	●	●
LE05	Recessed / Micro Grazer	●	●	●
LF01	Recessed Flangeless	●	●	●
LH01	Recessed Flangeless	●	●	●
LH02	Surface Mount / Pendant	●	●	●
LH08	Recessed	●	●	●
MA02	Cove	●	●	●
OM55	Cove	●	●	●
PH01	Outdoor Walk-Over	●	●	●
PH02	Outdoor Walk-Over / Surface Mount	●	●	●
PH04	Outdoor Walk-Over	●	●	●
TM02	Surface Mount / Pendant	●	●	●
UT01	Ingrade Walk-Over	●	●	●
VT01	Surface Mount / Pendant	●	●	∅
VT02	Surface Mount / Pendant	●	●	∅
VT03	Surface Mount / Pendant	●	●	●
WT02	90° / Corner	●	●	●
XT02	Surface Mount / Pendant	●	●	●
YT06	Surface Mount / Two-Sided	●	●	●

●	Compatible
∅	Not Compatible

Warning

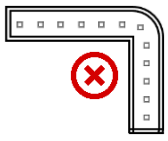
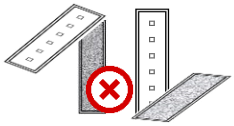
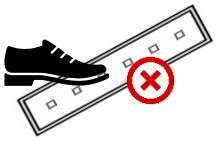
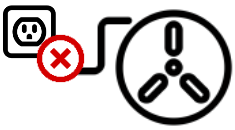
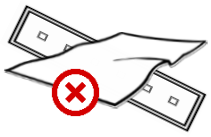
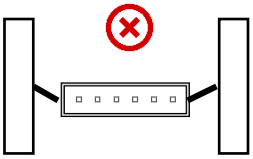
Warranty is VOID if any of the below are violated

READ AND FOLLOW ALL BELOW SAFETY INSTRUCTIONS

- Avoid any mechanical stress on the LED tape and its components
- Do not touch top of LED to prevent wire bond damage
- Do not power on the tape when rolled up in the reel
- The electrical circuit must not be damaged or interrupted during assembly
- Use only with Listed Class 2 power unit
- Follow the voltage specifications and electrical polarity to avoid irreversible damage to the LED tape
- Only qualified personnel with appropriate training and following the electrical and safety standards should carry out the installation
- The LED components are sensitive to electrostatic discharge and may be installed in the location or site only if appropriate EOS/ESD protection measures have been taken
- Do not look directly into the LEDs to prevent harm to the eyes
- Exposure of IP00 tape to moisture or very humid environments must be avoided. Any LED tape malfunction due to corrosion damage is not subject to product warranty.
- LED strip can be cut only at the marked locations or between 2 solder points. Do not touch electrical components.
- The minimum bending radius is 1 ¼ “. Bend only in areas with no electronic components.
- The maximum light output and lifespan of the LED products depend on effective thermal design. If the maximum allowed temperature is exceeded, the life of the LED tape will be reduced by great margin or eventually destroyed.
- Appropriate heat dissipation management is required by the installation. Always apply the LED tape to a metallic heat sink and ensure the maximum temperature on the tape surface does not exceed 150°F.

Caution

Warranty is VOID if any of the below are violated

Do not bend on horizontal plane 	Do not bend at sharp 90° corner 	Do not twist 	Do not step on or put object on top 
Do not power on when LED tape is in a reel 	Do not cover 	Do not puncture 	Do not paint over 
Do not hang 	Do not suspend 	Do not use 3rd party connector 	Do not use 3rd party adhesive 

LED Tape Installation Guide

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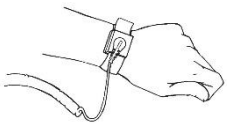
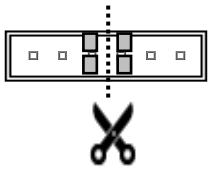
1. Use ESD (Electronic Static Discharge) wrist band and ensure hands are clean and oil free when handling LED tape to prevent open electrical components from failing
2. LED strip can be cut only at the marked locations or between 2 solder points. Do not touch electrical components.
3. Solder connections should only be performed manually on designated solder pad. Do not exceed 3 seconds soldering time. Do not exceed 600°F during soldering.
4. Alternatively, connect LED tape using appropriate connector. Do not sure 3rd party connector.
5. Ensure the mounting surface is a clean, dry and free of oils, silicones dust and dirt. Use isotone or cleaning alcohol with a soft, non-scratching cloth for cleaning.
6. Remove the paper backing from the back side of the LED tape exposing 3M adhesive.
7. Apply the 3M adhesive side of the LED tape on smooth and clean metallic surface of the heat sink and gently press in areas with no electronic components. Do not use 3rd party adhesive. Do not touch or stress the mechanical components.

Warning: Avoid repetitive application by attaching and detaching of the LED tape to the surface during installation. It may lead to irreversible damage of the electrical circuit.

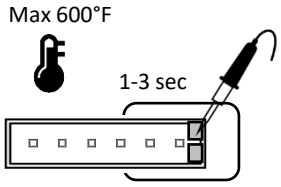
1 Use ESD wrist band



2 Cut LED strip

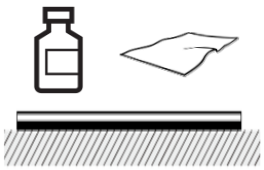


3 Solder LED strip



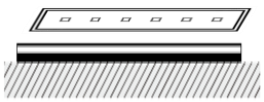
4 Connect LED strip

5 Clean mounting surface



6 Remove backing

7 Apply LED strip to mounting surface



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