

OSLON® SSL 80 30 LED 1061mm PowerLinear White

ILS-ON30-xxxx-1061-SC211-xx Series

Product Overview

At the heart of each PowerLinear 1061mm are 30 OSRAM Opto Semiconductors OSLON® SSL 80 ThinGan (UX:3) LEDs. These LEDs can be driven up to 800mA or 1000mA dependant on colour temperature while OSRAM's latest power chip technology remains efficient even at the highest drive currents. A low thermal resistance of 7K/W ensures cool running and a highly efficient product. 1061mm Strips are powerful LED light sources built on aluminium substrates for optimal thermal management. And these Linear Strips are designed to work with our linear Heat Sinks and diffusers. Available with 200mm wires as standard.

Applications

- General Lighting
- Decorative Lighting
- Task Lighting
- Shelf Lighting
- Retail and Entertainment Lighting
- Linear Lighting

Technical Features

- PowerLinear 1061mm contain OSLON® SSL 80 LED with integral 80 degree silicon resin Lenses
- Up to 100,000 Hour lifetime to 70% of original brightness
- Mounting holes using M3 screws allows easy installation
- Size (L x W x H) : 1061mm x 20mm x 3.85mm
- Available with 6 x 200mm connecting wires – LEDs driven in 3 channels of 10 LEDs
- Secondary Lens can be fitted – check options in suitable Lens and Reflector section
- Suitable Heat Sinks available – check options in Heat Sink section
- Matching Power Supply available - check options in Power Supply section
- Current range 100 to 800mA-1000mA depending on colour temperature

*This datasheet should be read in conjunction with the relevant Osram Opto Semiconductors data on the LED used



Important Information and Precautions

- The Strip's LEDs, when powered up, are very bright. Thus it is advised that you do not look directly at it. Turn the Strip away from you and do not shine into the eyes of others.
- Strips will overheat in operation if not attached to a suitable Heat Sink. Overheating can cause failure or irreparable damage.
- Do not operate Strips with a Power Supply with unlimited current. Connection to constant voltage Power Supplies that are not current limited may cause the Strip to consume current above the specified maximum and cause failure or irreparable damage.
- Strips, when operated, can reach high temperatures thus there is risk of injury if they are touched.
- DO NOT HOT PLUG ON LED SIDE OF POWER SUPPLY.
- DO NOT TOUCH or PUSH on the LED as this can cause irreparable damage.

Product Options

ILS PART NUMBER	Colour	Colour Temp * (Degrees Kelvin)	Typical Wattage §		Forward Voltage	Flux † at 350mA	Radiance Angle	Relevant OSRAM LED Data
			@350mA	@700mA				
ILS-ON30-HWWH-1061-SC211-WIR200.	Hot White	2700K	32.7 watts	65.1 watts	81 to 105 volts	<3330 lm	80° (±40°)	LCWCR7P. EC
ILS-ON30-WMWH-1061-SC211-WIR200.	Warm White	3000K	32.7 watts	65.1 watts	81 to 105 volts	<3330 lm	80° (±40°)	LCWCR7P. EC
ILS-ON30-QZWH-1061-SC211-WIR200.	Quartz White	3500K	32.7 watts	65.1 watts	81 to 105 volts	<3750 lm	80° (±40°)	LCWCR7P. EC
ILS-ON30-NUWH-1061-SC211-WIR200.	Neutral White	4000K	32.7 watts	65.1 watts	81 to 105 volts	<3750 lm	80° (±40°)	LCWCQ7P. PC
ILS-ON30-WHWH-1061-SC211-WIR200.	White	5000K	32.7 watts	65.1 watts	81 to 105 volts	<4320 lm	80° (±40°)	LUWCR7P
ILS-ON30-STWH-1061-SC211-WIR200.	Street White	5700K	32.7 watts	65.1 watts	81 to 105 volts	<4320 lm	80° (±40°)	LUWCR7P
ILS-ON30-ULWH-1061-SC211-WIR200.	Ultra White	6500K	32.7 watts	65.1 watts	81 to 105 volts	<3750 lm	80° (±40°)	LUWCR7P

* Due to the special conditions of the manufacturing processes of LEDs, the typical data of technical parameters can only reflect statistical figures and do not necessarily correspond to the actual parameters of each single product which could differ from the typical data.

§ Tolerance +/- 10%

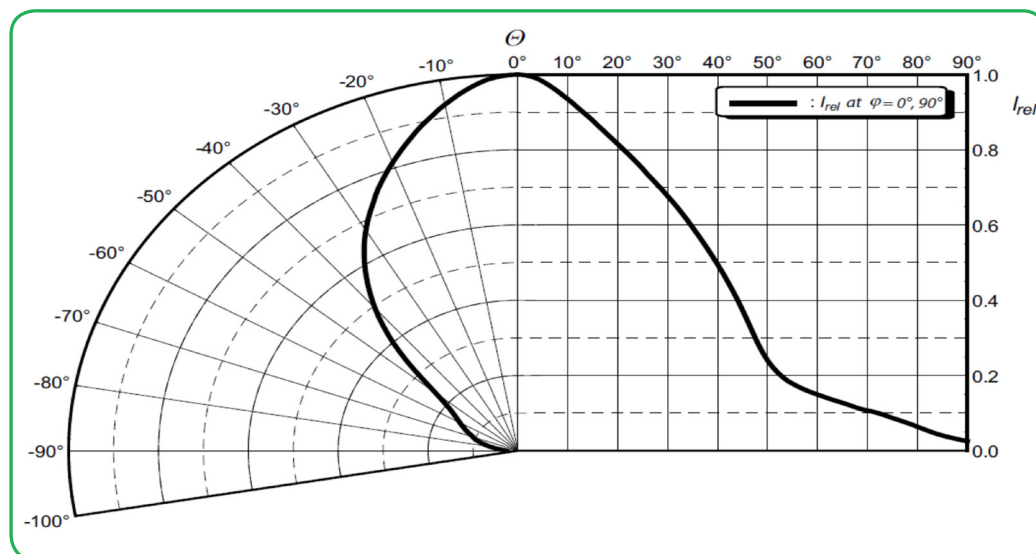
† Measured with 20mS 350mA pulse at 25° c

Minimum and Maximum Ratings

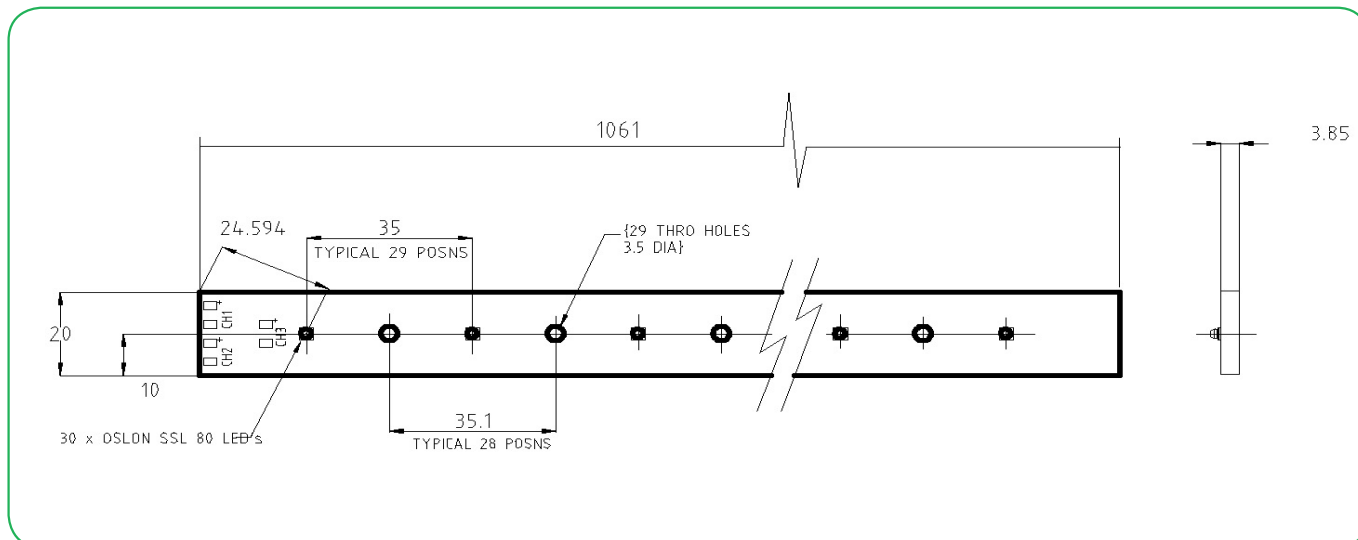
ILS PART NUMBER	Operating Temperature at Tc-Point [°C]*	Storage Temperature [°C]*	Forward Current per chip [mA]*	Reverse Voltage [Vdc]*
ILS-ON30-HWWH-1061-SC211-WIR200.	70°C max	- 40 to 110 °C	1000mA max	not designed for reverse voltage
ILS-ON30-WMWH-1061-SC211-WIR200.	70°C max	- 40 to 110 °C	1000mA max	not designed for reverse voltage
ILS-ON30-QZWH-1061-SC211-WIR200.	70°C max	- 40 to 110 °C	1000mA max	not designed for reverse voltage
ILS-ON30-NUWH-1061-SC211-WIR200.	70°C max	- 40 to 110 °C	1000mA max	not designed for reverse voltage
ILS-ON30-WHWH-1061-SC211-WIR200.	70°C max	- 40 to 110 °C	1000mA max	not designed for reverse voltage
ILS-ON30-STWH-1061-SC211-WIR200.	70°C max	- 40 to 110 °C	1000mA max	not designed for reverse voltage
ILS-ON30-ULWH-1061-SC211-WIR200.	70°C max	- 40 to 110 °C	1000mA max	not designed for reverse voltage

* Exceeding maximum ratings for operating and storage temperature will reduce expected life time or destroy the LED module.
 Exceeding maximum ratings for operating voltage will cause hazardous overload and is likely to destroy the LED module.
 The temperature of the LED module must be measured at the Tc-Point according to EN60598-1 in a thermally constant status with a temperature sensor or a temperature sensitive label.

Radiation of single LED



Technical Drawing (mm)



3D drawing files are available on request from ILS. Please call or email

OSLON® SSL 80 30 LED Lens Options

LEDIL precision-engineered Lenses and Reflectors allow for rapid deployment of all types of light fixtures, including street lights, wall-wash, high-bay, sconces, emergency beacons, parking garage/low-bay, MR and AR downlights, and dock lights. Precision-engineered for maximum efficiency and durability, LEDIL Lenses and Reflectors are released alongside the latest product releases from our LED suppliers. You select the best LED for the application; choose LEDIL and you're selecting the best optical solution as well.



	Oslon SSL 80	Oslon SSL 150	Oslon Square	
ILS Part Number	Beam Angle (FWHM)	Beam Angle (FWHM)	Beam Angle (FWHM)	Mounting Type
LEILA-XX	11,20,23,26	12,22,25,34	Measurement data available shortly	PIN & GLUE
EMILY-XX	11,20,26	12,22,34	Measurement data available shortly	PIN & GLUE

OSLON® SSL 80 30 LED Heat Sink Options

ILS has recently introduced a series of Aluminium Alloy Heat Sinks to be used with their standard range of Linear Strips. These Heat Sinks are supplied with end caps and diffuser material for the light engine and for fixing to a base plate. They also come with Thermal Interface Material (TIM) attached to the top surface. More versions will be introduced over the coming months and we are also happy to manufacture custom Heat Sinks to your request.


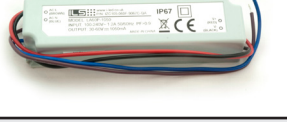


	Operates under the recommended ILS junction temperature
	Operates under the recommended LED maximum junction temperature
	Not suitable for use
N/A	Heat Sink not designed for use with this product

ILS Product	Current	no heatsink in free air	ILA-HSINK-1061-40mm-BLK
Oslon 30 1061 Linear Strip	350mA		
	700mA		

OSLON® SSL 80 30 LED Power Supply Options

ILS has a comprehensive range of standard Power Supplies. The table below shows the total number of ILS products each Power Supply can drive.

Additional Power Supplies are being introduced so please call us or check our website for the latest offering.

ILS Driver Part No.	Rating W	Current	480 Long Linear Strip	
IZC050-060F-9067C-QA	60	500mA	1	
IZC105-060F-9067C-QA	60	1050mA	1	
IZC140-060F-9067C-QA	60	1400mA	1	
IZC070-075A-9267C-SA	75	700mA dim	1	

Thermal Interface Material Options

ILS have produced a range of high-performance, cost effective Thermal Interface Materials to match perfectly their standard products.

Our product fills the air pockets between the two surfaces, forming a continuous layer to conduct heat away from the LED to the Heat Sink.

ILS offer their TIM in three options – double sided adhesive, single sided adhesive and non-adhesive.

Product	Non Adhesive	Single Sided Adhesive	Double Sided Adhesive
Strip	ILA-TIM-1061-0A	ILA-TIM-1061-1A	ILA-TIM-1061-2A

Other sizes are available, including customised parts

Assembly Information

In order to optimise the thermal management, the metal surface needs to be clean (dirt and oil free) and planar for the best contact with the LED module. A thermal grease or heat transfer material is highly recommended.

Safety Information

- The LED module itself and all its components must not be mechanically stressed.
- Assembly must not damage or destroy conducting paths on the circuit board.
- The mounting of the module is carried out by attaching it at the mounting holes. Metal mounting screws must be insulated with synthetic washers to prevent circuit board damage and possible short circuiting.
- To avoid mechanical damage to the connecting cables, the boards should be attached securely to the intended substrate. Heavy vibration should be avoided.
- Observe correct polarity!
- Depending on the product, incorrect polarity will lead to emission of Red or no light. The module can be destroyed!
- Pay attention to standard ESD precautions when installing the 480mm Strip.
- The 480mm Strip, as manufactured, have no conformal coating and therefore offer no inherent protection against corrosion.
- Damage by corrosion will not be accepted as a materials defect claim. It is the user's responsibility to provide suitable protection against corrosive agents such as moisture and condensation and other harmful elements.
- For outdoor usage, a housing is definitely required to protect the board against environmental influences. The design of the housing must correspond to the IP standards in the application. It is also the responsibility of the user to ensure any housings or modifications keep the Tc junction temperature to within stated ranges.
- To also ease the luminaire/installation approval, electronic control gear for LED or LED modules should carry the CE mark and be ENEC certified. In Europe the declarations of conformity must include the following standards: CE: EC 61374-2-13, EN 55015, IEC 61547 and IEC 61000-3-2 - ENEC: 61374-2-13 and IEC/EN 62384.
- The evaluation of eye safety occurs according to the standard IEC 62471:2006 ("photobiological safety of lamps and lamp systems"). Within the risk grouping system of this CIE standard, the LED specified in this data sheet falls into the class "moderate risk" (exposure time 0.25s). Under real circumstances (for exposure time, eye pupils, observation distance), it is assumed that no endangerment to the eye exists from these devices. As a matter of principle, however, it should be mentioned that intense light sources have a high secondary exposure potential due to their blinding effect. As is also true when viewing other bright light sources (e.g. headlights), temporary reduction in visual acuity and afterimages can occur, leading to irritation, annoyance, visual impairment and even accidents, depending on the situation.

For further information please contact ILS

The values contained in this data sheet can change due to technical innovations. Any such changes will be made without separate notification.