SL7970 LINEAR SMD FLEXLITE FLAT

Superlight Flat LED Flexlite is a unique linear lighting product that is ideal for a wide range of applications. The high power SMD LED technology delivers smooth and vibrant illumination for both direct and some indirect lighting applications. Superlight LED Flexlite can be curved to form shapes and lettering. Optional mounting track profiles are also available for straight linear installations.

SPECIFICATIONS

Input Voltage:	24VDC
Power Consumption	12W Per Mtr
IP Rating:	IP67
LED Classification:	SMD
Viewing Angle:	180°
Dimensions - Width:	12mm
Dimensions - Height:	21mm
Operating Temperature:	-5 - +55°C
Colour Change Control Via:	Use Any Superlight RGB Controller

CEILING HEIGHT COMPATIBILITY

Residential Application	Ceiling Height: 3.9m-8.0m
Commercial Application	Ceiling Height: 3.9m-8.0m

PHOTOMETRIC INFORMATION

- SL7970-11 Typical Wavelength: RED 650nm
- SL7970-12 Typical Wavelength: GREEN 540nm
- SL7970-13 Typical Wavelength: BLUE 455nm
- SL7970-15 CCT: 6500K CRI: →80
- SL7970-17 CCT: 4200K CRI: →85
- SL7970-21 CCT: 3200K CRI: →85
- SL7970-35 RGB Colour Controllable

Detailed photometric report and IES files available by request

TYPICAL APPLICATIONS

Bordering architecture, Signage applications, Outdoor decorative lighting, Direct linear lighting

3D MODELLING & LIGHTING DESIGN

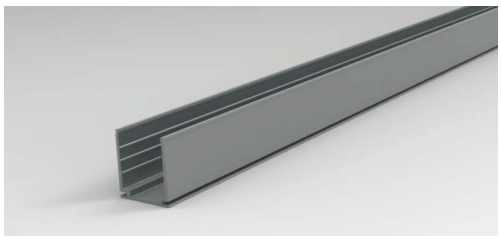
Superlight can provide detailed 3D modelling and lighting design services for your project, including wiring schematics and lighting control system design. Contact us for more information.

CUSTOMIZATION OPTIONS

Lengths can be customised
RGB version is fully colour change controllable
Optional aluminium or PVC mounting track available by request

CONTROL & DIMMING COMPATIBILITY

Lengths can be customised
RGB version is fully colour change controllable
Optional aluminium or PVC mounting track available by request

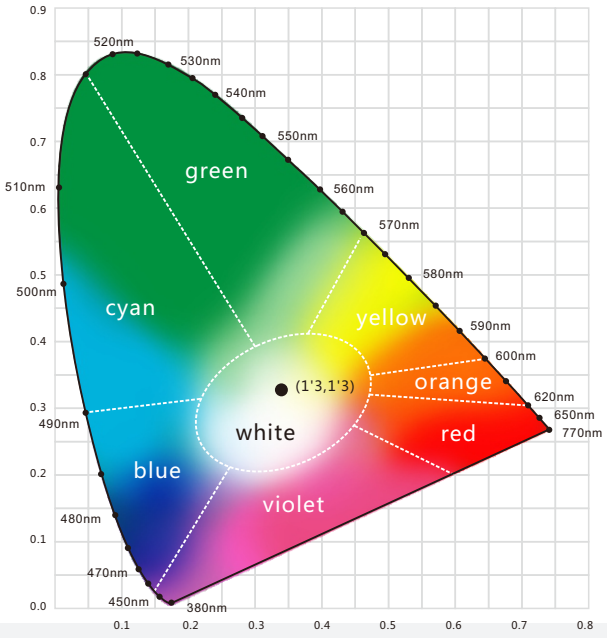


ENGINEERING SPECIFICATIONS

Testing Item	Classification	Reference Criterion	Testing Condition/Method	Result
IP Rating Test	IP65/IP68 1m	IEC60529	/	Pass
Environmental Test	High Temperature Storing	IEC 68—2—2	60℃	Pass
	High Temperature and Humidity Impact	IEC 68—2—3	70℃. 95%Rh	Pass
	Corrosion Resistance Test in Swimming Pool Water	/	/	Refer to test report
	Corrosion Resistance Test in Artificial Sea Water	/	/	Refer to test report
	Corrosion Resistance Test in Volatile Oil	/	/	Refer to test report
	Salt Spray Test	IEC 68—2—11	Spray continuously for 96 hours and the concentration of NaCl solution is 5%	Pass
	UV Test	ISO 4892—2	0.76W / m2, UVA—340nm, 65℃	Refer to test report
Optical Test	Light Spectrum	ANSI C78 · 377	/	Refer to test report
	Candela Distribution	LM 79	/	Refer to test report
Mechanical Test	Bending Test	/	Bending Diameter 12cm	> 500 times
	Torsion Test	/	Twisting Angle: -360°~360° Rotating Speed: 7200°/min	> 200 cycles
	Swing Test	/	Swinging Angle: -90°~90°, 750 times/ cycle; lift weight:300g	> Screw 3750 times > Clasp 1500 times
	Tensile Test	/	Increasing the strength gradually till PCB break	> 71kg.f
Electrical Test	Insulation Resistance	IEC60598—1	/	> 2MΩ
	Electrical Continuity	IEC60598—1	Weights were added on the connector for 1min	> 14kg.f

> Note: Please contact us for related test report.

RGBW CHROMACITY DIAGRAM



TEST REPORTS

Testing Item	Testing Organization	Report Number
RoHS	SGS	CANECl202163502 A01
IP68: Screw type	TUV SUD	68.140.12.136.02
IP68: Clasp type	SGS	GZESl40200135301 GZESl40200135401 GZESl40200135501 GZESl40200135701 GZESl40200135801
IPX8: Molding type	SGS	SZESl41200357301 SZESl41200357401 SZESl41200357501
Flame retardant	TUV SUD	68.140.13.068.01
IK08	TUV SUD	68.140.12.171.01
Temperature risen	UL	UL file E360029-Test Record-1 Datasheet
UV: Light	AOV	A002R130308065—1R01
UV: PVC	AOV	A002R130308065—2R01

>Note: The testing reports and certificates are available by request

STANDARDS AND CERTIFICATION

Certificating Type	Testing Organization	Certificate Serial Number	Report Reference
CE-EMC	SGS	SZEMl41000576803V	SZEMl41000576803
CE-EMC	TUV Rheinland	AE 50274407 0001	17037105 001
CE-LVD	TUV Rheinland	AE 50275368 0001	17036967 001
UL & cUL	UL	20130417-E360029	E360029-20130322

WORKING TEMPERATURE vs REAL POWER