

DATA SHEET
Sconce Module Series
Preliminary Only

SCONCE MODULE SERIES

General Luminaire Sconce Module is a dimmable, economical sconce illumination system that eliminates the need for a standard internal AC-DC power supply, optimizing size, efficiency, cost effectiveness and durability.

Modular ACDirect technology, a breakthrough ACIC technology that powers LEDs directly from the AC mains, is fully dimmable with standard TRIAC or 0-10V via a TRIAC conversion bridge*.

Available is a standard size, multiple power outputs and a full complement of CCT's.

A hybrid sconce module offering you the high end architectural grade of true LED sconce illumination

PRODUCT DESCRIPTION

Connects Directly to AC Mains

Multiple CCTs Available

Standard 80 CRI With 90 Optional

3 Step MacAdam Color Binning

Standard Triac Dimming

3 Stage Power Adjustment

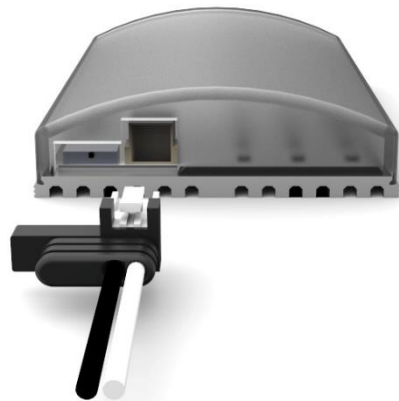
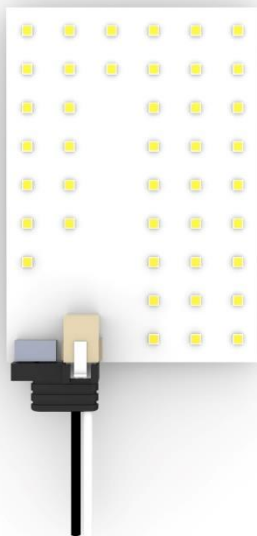
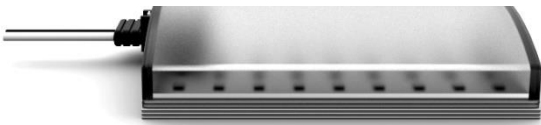
3 Year Warranty at $T_p \leq 80^\circ\text{C}$

TARGET APPLICATIONS

Architectural Sconce Lighting

Custom Lighting Solutions

ADDITIONAL VIEWS



Note: All specifications are subject to change without notice.
Some renderings shown with diffused cover (coming soon)

SCONCE MODULE SERIES

PARAMETER	CONDITIONS
PCB	MCPCB 104mm x74mm
	UL Component File Number: E213009
Emitter Type	42 x 2835 LEDs
	UL Component File Number: E347623
Circuit Layout	42 LEDs in Series/Parallel
Connector Type	Proprietary
Thermal Resistance (p-n junction to chip point)	Rth = 17 °C/W
Thermal Resistance (Ts to Tp)	Approx. 0.159°C/W
Thermal Resistance (Ts to the back of Tp)	Approx. 0.254°C/W

PRODUCT SELECTION GUIDE

PART NUMBER (PCBA)	PART NUMBER (Full Module)	CCT	CRI (min.)
TBD	TBD	2700K	80/90
TBD	TBD	3000K	80/90
TBD	TBD	3500K	80/90
TBD	TBD	4000K	80/90
TBD	TBD	5000K	80/90
TBD	TBD	5700K	80/90
TBD	TBD	6500K	80/90

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BOARD OPTICAL CHARACTERISTICS (Ts=25 °C)

PART	CCT	CRI	FLUX (lm)		EFFICACY (lm/W)	
			MIN.	TYP.	MIN.	TYP.
Sconce Series TBD PCBA Only	2700K	80	825	950	92	95
		90	726	830	80	83
	3000K	80	860	980	95	98
		90	791	920	88	92
	3500K	80	885	1010	98	101
		90	814	930	90	93
	4000K	80	910	1060	101	106
		90	837	970	93	97
	5000K	80	915	1070	102	107
		90	850	980	94	98
	5700K	80	930	1070	103	107
		90	864	990	96	99
	6500K	80	930	1070	103	107
		90	864	990	96	99

BOARD OPTICAL CHARACTERISTICS (Ts=25 °C)

PART	CCT	CRI	FLUX (lm)		EFFICACY (lm/W)	
			MIN.	TYP.	MIN.	TYP.
Sconce Series TBD Full Module / Clear Cover	2700K	80	726	836	81	83
		90	638	730	71	73
	3000K	80	756	862	84	86
		90	696	809	77	80
	3500K	80	778	888	86	88
		90	736	818	82	82
	4000K	80	800	932	89	93
		90	736	853	82	85
	5000K	80	805	941	89	94
		90	748	862	83	86
	5700K	80	818	941	90	94
		90	760	871	84	87
	6500K	80	818	941	91	94
		90	760	871	84	87

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BOARD ELECTRICAL CHARACTERISTICS

	Min.	Typ.	Max.
Voltage (V)	108	120	132
Total Board Power (W)	10W ±10%		

TECHNICAL CHARACTERISTICS*

Input Frequency	Vac (V)	Iin (A)	PF	THD (%)	Pin (W)	Pin Line Reg. (%)	Flicker Percent (%)	Flicker Index	Surge Protection
50/60Hz	108	0.086	0.980	TBD	8.91	91.9	TBD	TBD	2KV
	114	0.085	0.985	TBD	9.67	97.0	TBD	TBD	
	120	0.084	0.990	TBD	10.01	100.0	TBD	TBD	
	126	0.083	0.991	TBD	10.46	102.2	TBD	TBD	
	132	0.079	0.990	TBD	10.54	102.7	TBD	TBD	

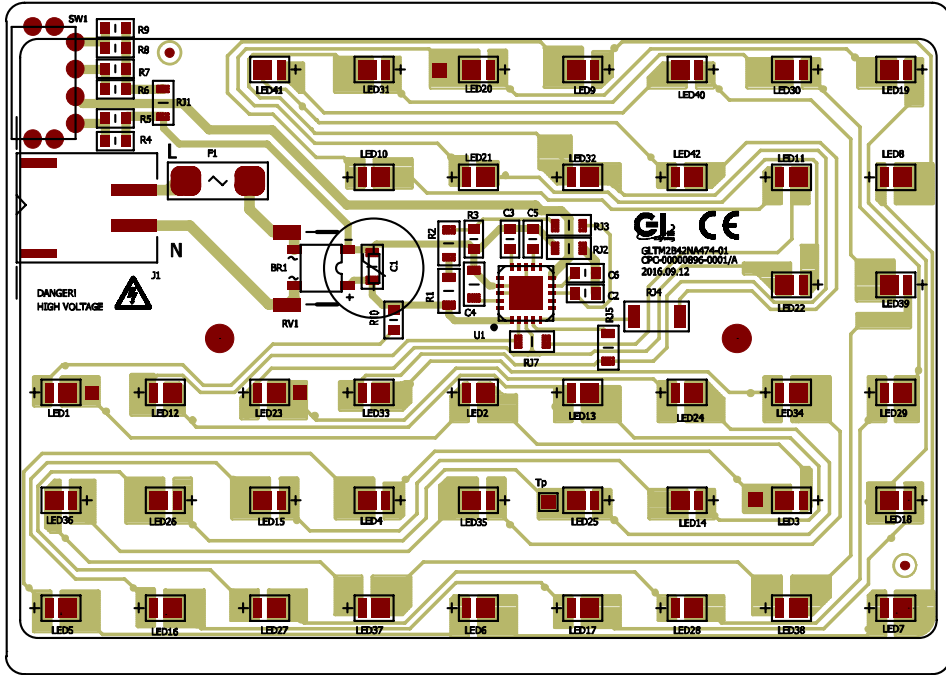
* sample testing data.

ENVIRONMENTAL CHARACTERISTICS

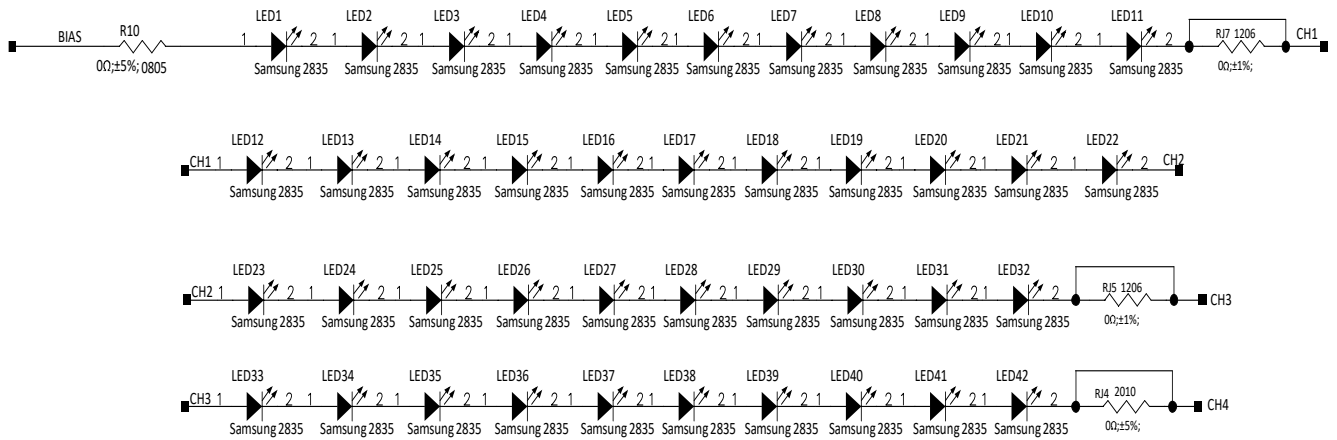
	Storage Temperature	PCB Temperature (T _p)
Min.	-40°C	-40°C
Max.	85°C	80°C

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PCB LAYOUT DIAGRAM

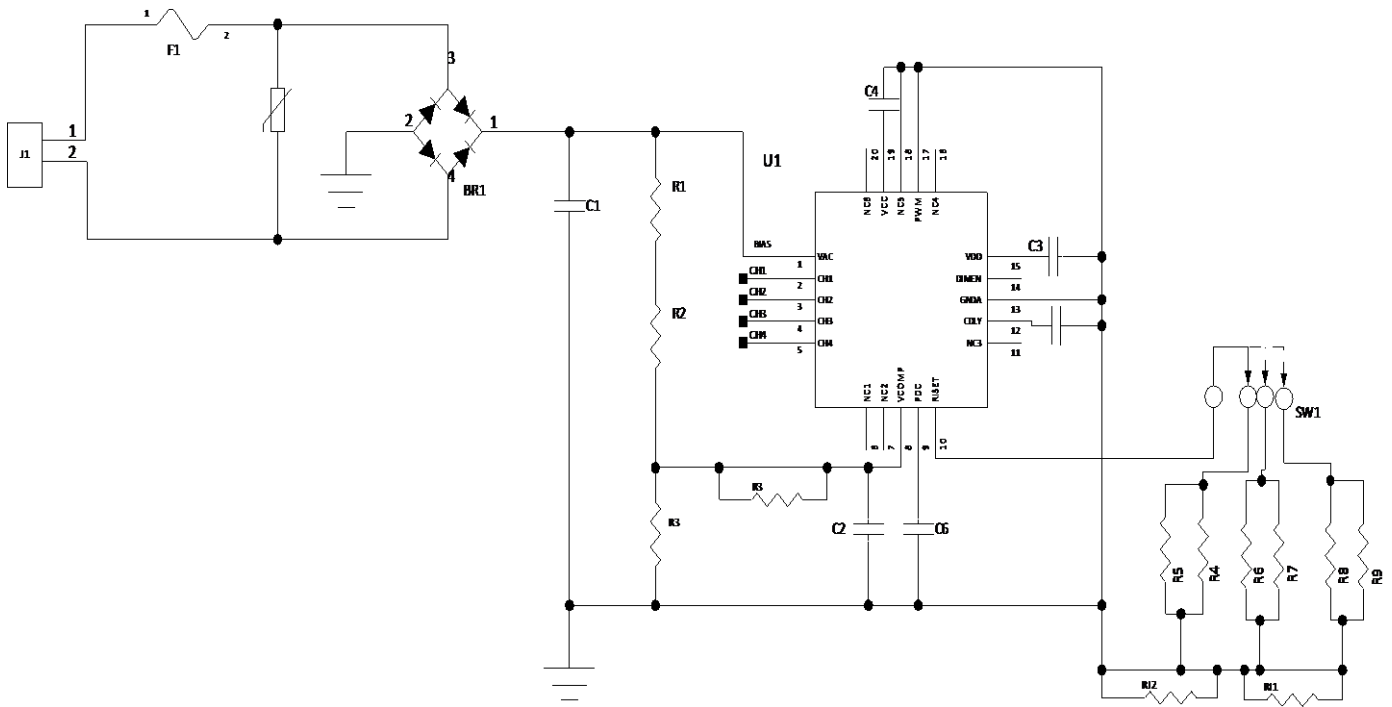


LED STRING DIAGRAM



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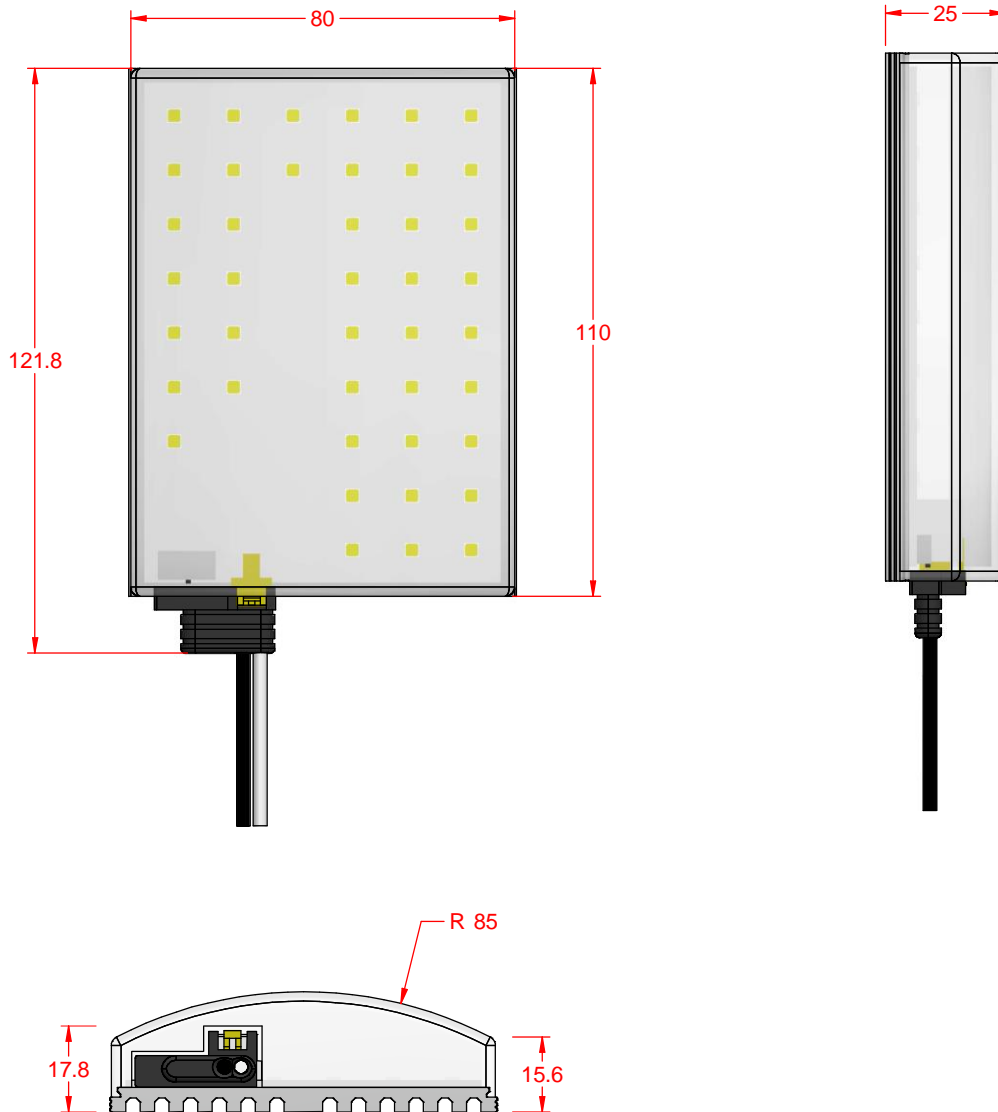
ELECTRICAL CIRCUIT DIAGRAM



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MECHANICAL DIMENSIONS

All dimensions are in millimeters



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