

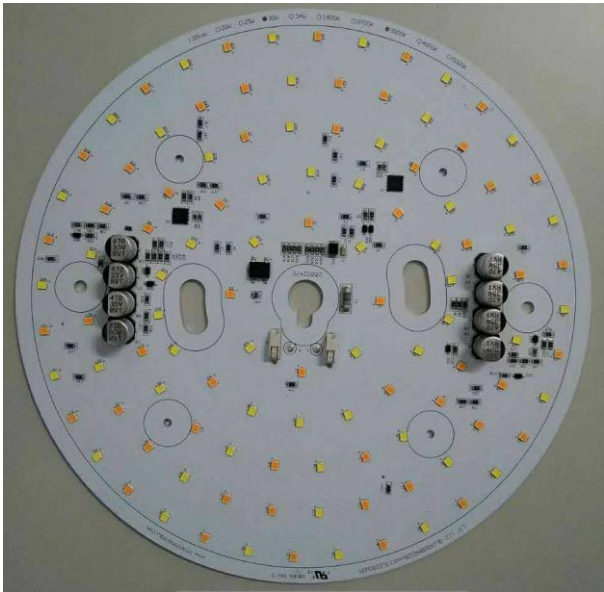
MDL-M8C2 Series Datasheet

Features

- Connects directly to AC line voltage
- Meets California Title 24 requirements
- PF > 0.97, THD < 20%
- Dimming range 5% - 100%

Applications

- Down light
- Ceiling light



Electro-Optical Characteristics (Ta=25℃)

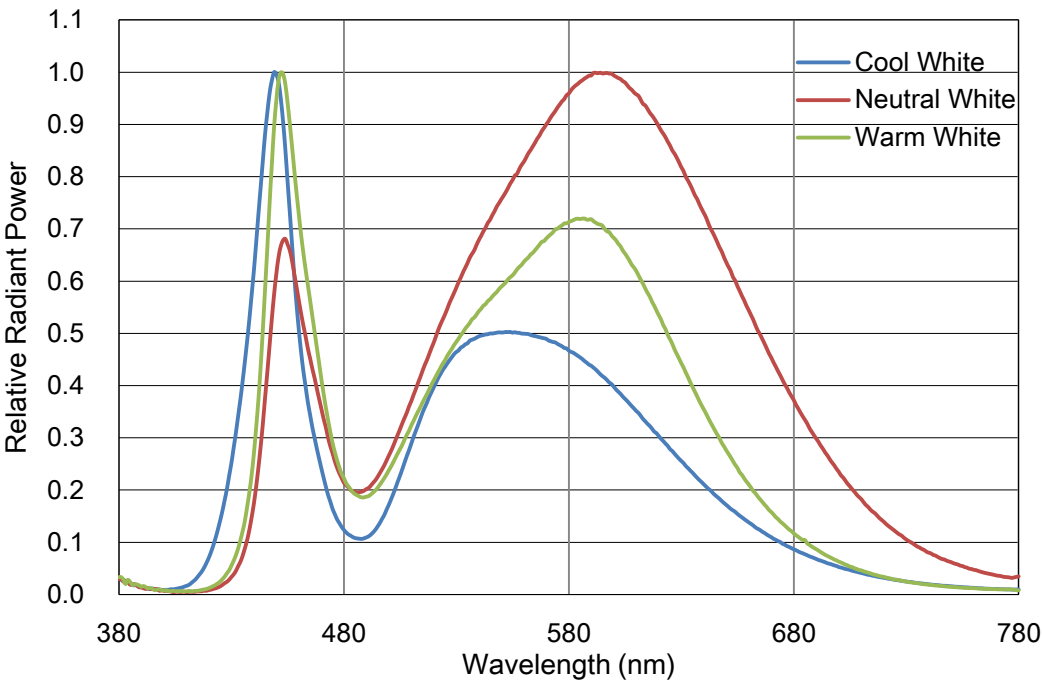
Part number	Voltage (Vac)	Freq(HZ)	CIE	Ra	Power(W)			Flux(lm)	
					Min	Typ.	Max	Min	Typ.
MDL-M8C1-300-S-L30D-WD	120	60	<3step @3000K	>90	28.7	30	31.3	2400	2500

[1] Luminous flux is measured with an accuracy of ± 5%.
[2] Φv is the total luminous flux output measured with an integrated sphere.
[3] CRI is measured with an accuracy of ± 2.

Absolute Maximum Ratings (Ta=25℃)

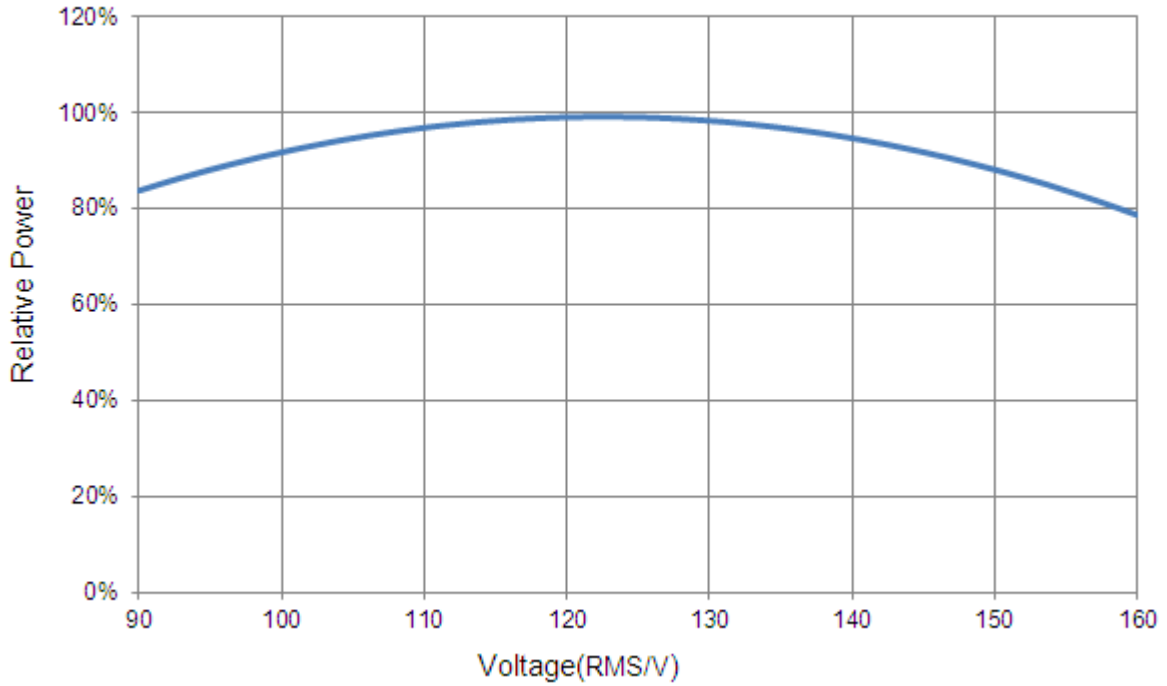
Parameter	Symbol	Value	Unit
Voltage	V opt	140	Vac
LED Solder Temperature	Ts	-20~+85	℃
Storage Temperature	Tstg	-40~+100	℃
ESD Sensitivity(HBM)	--	±4000	V

Relative Spectral Distribution vs. Wavelength Characteristic

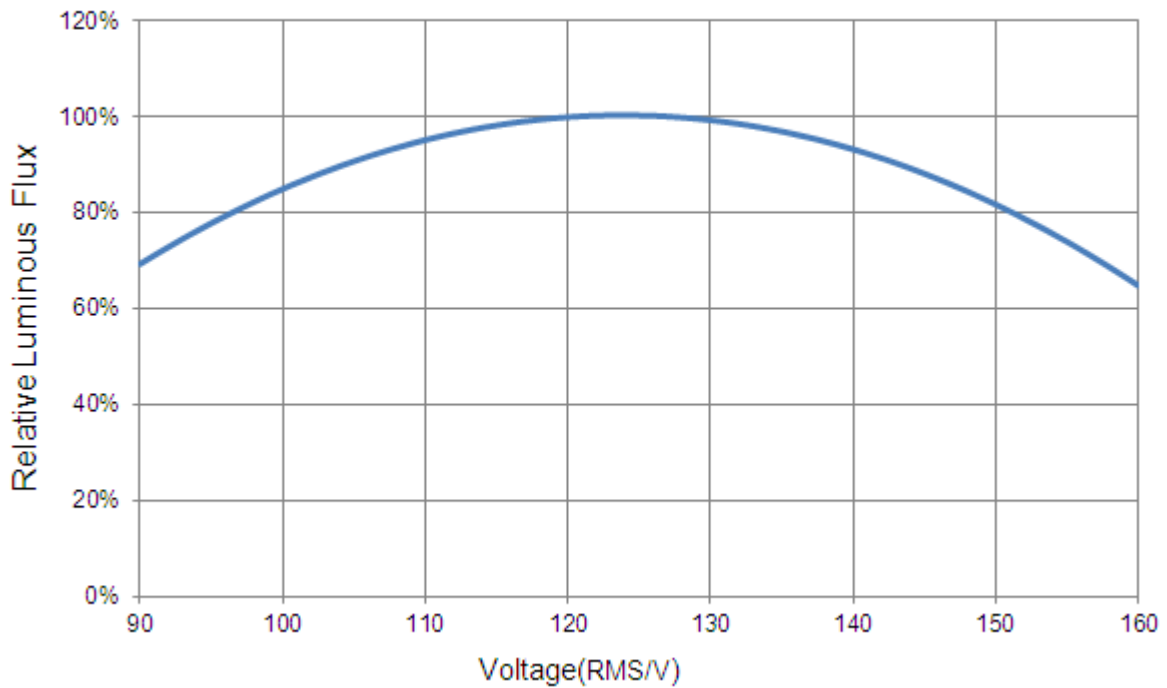


Power Characteristics

Relative Power Distribution vs. Voltage at $T_a=25^{\circ}\text{C}$

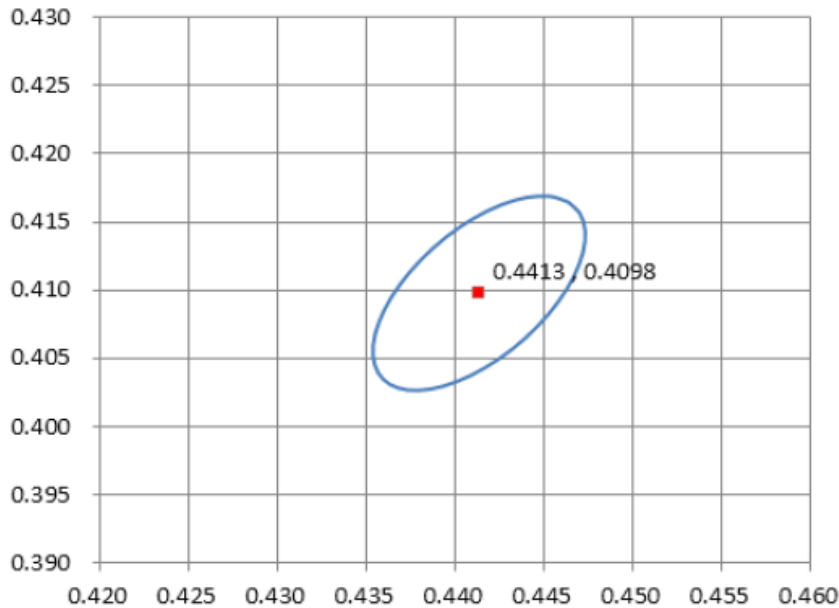


Relative Luminous Flux vs. Voltage at $T_a=25^{\circ}\text{C}$



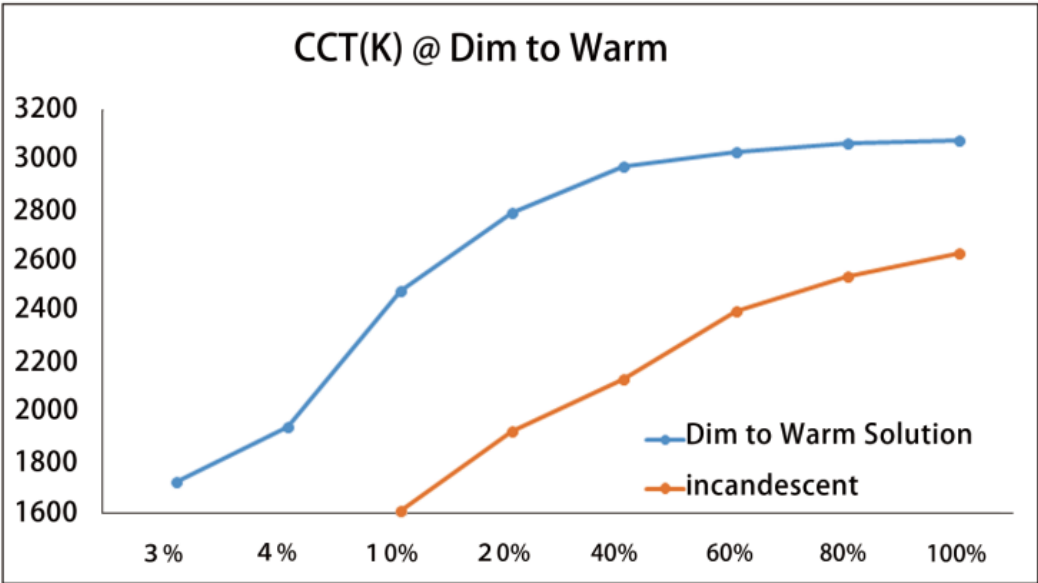
Chromaticity Bins

Chromaticity Bins: 1931 CIE Curve

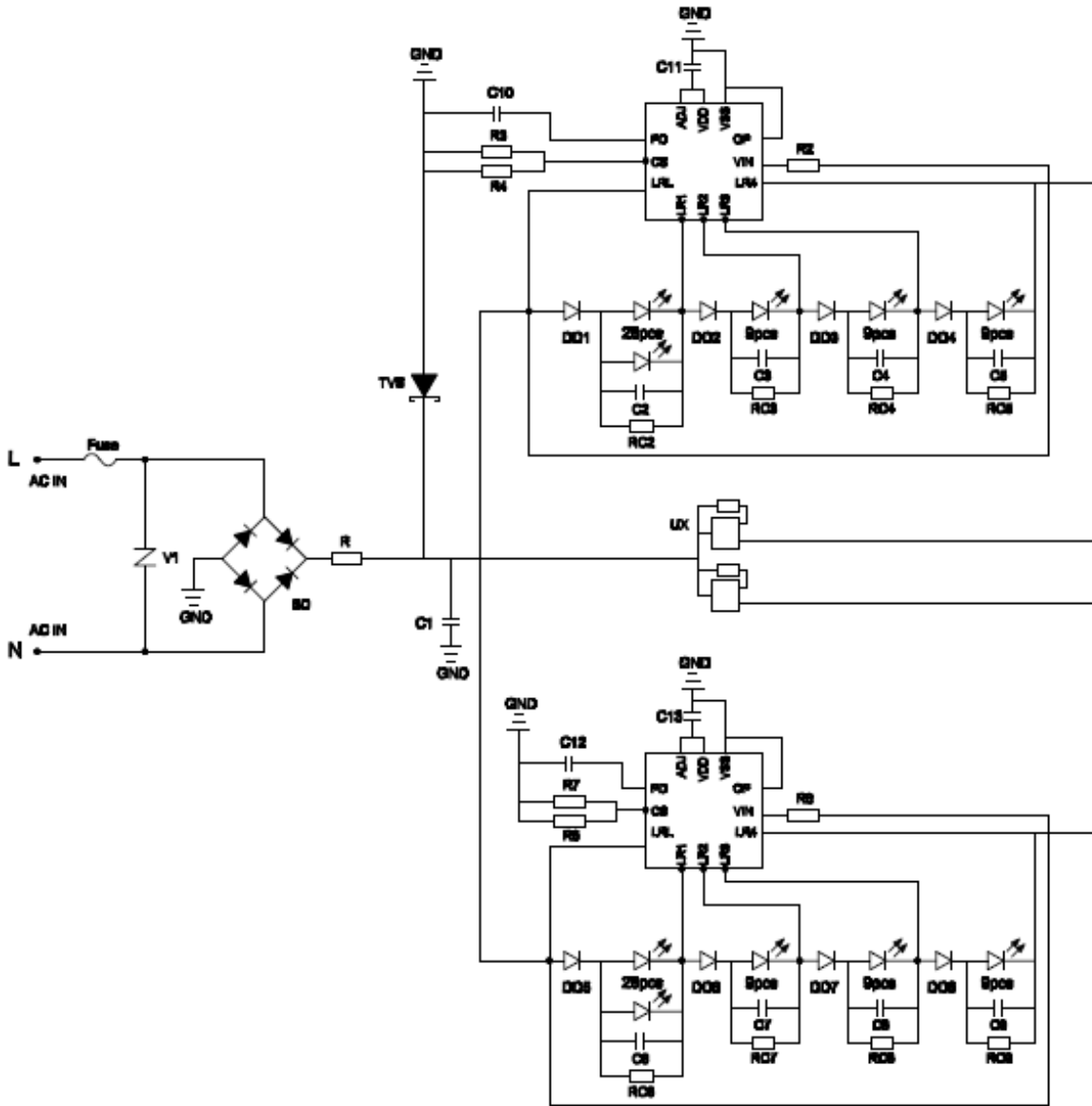


BIN CODE	CCT	Color Coordinates(x, y)				
		Center		Oval parameter		
		x	y	a	b	Theta°
300	3000K (3-STEP)	0.4413	0.4098	0.0083	0.0041	53.17

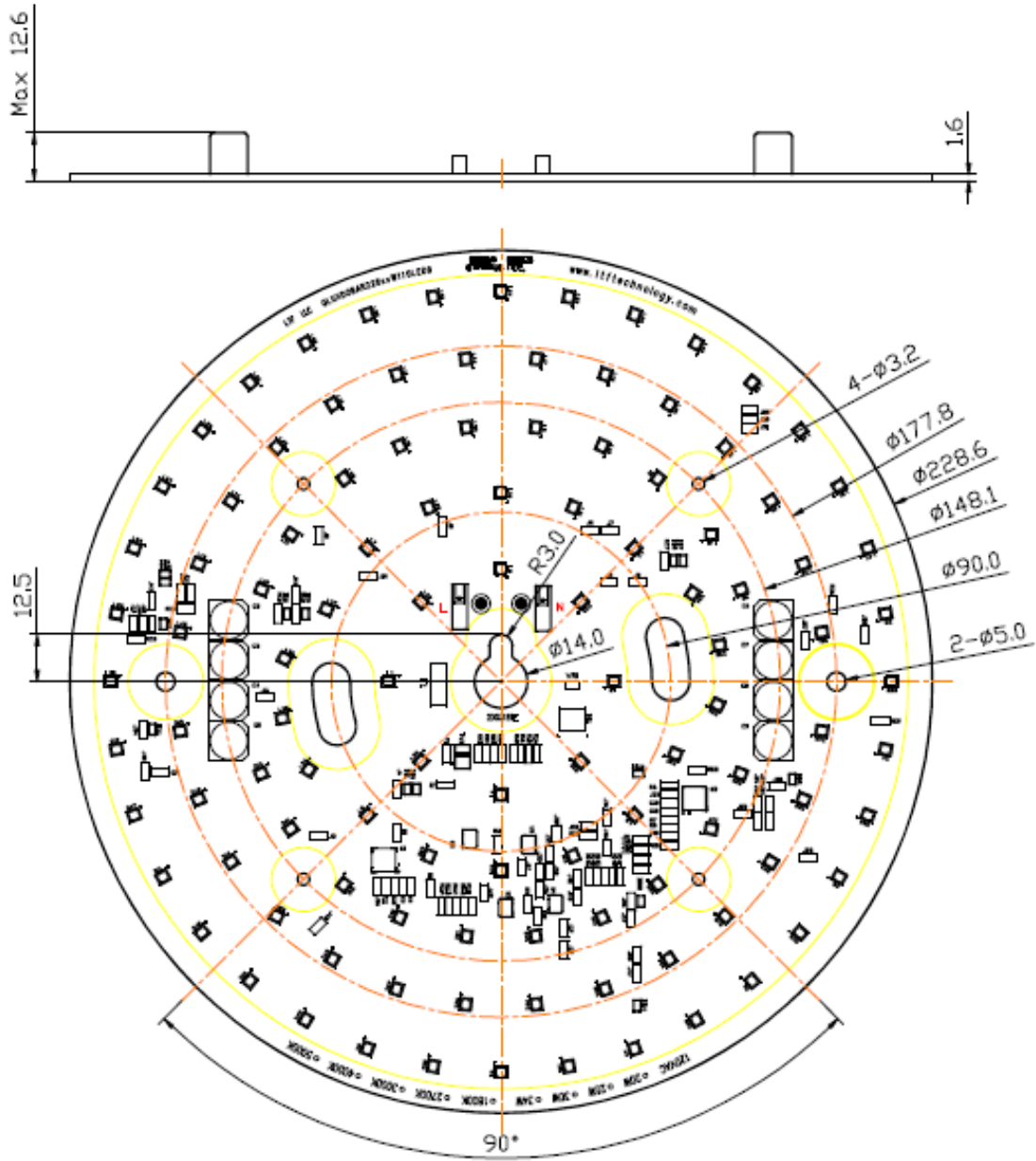
Typical CCT-Power% chart when Dim to Warm @dimmer



Circuit Drawing



Outline dimensions



[1] All dimensions are in millimeters. (Tolerance : ± 0.5)

Precaution for use

- Please do not press the silicone resin area with objects such as finger, lens.
- Operating Voltage doesn't indicate the maximum voltage.
- It is recommended that the solder pad temperature should be below 85°C .
- DO NOT touch any of the circuit board, components or terminals with body or metal while circuit is active.