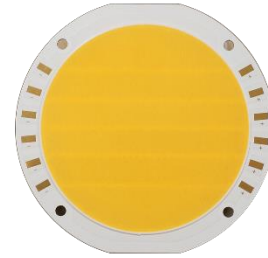


PRODUCT:

1500W CHIP ON BOARD LED

FEATURES:

Φ72 mm chip-on-board LED
120° emission angle
95 Ra



DESCRIPTION

YUJILEDS® BC 900H series high CRI COB provides high CRI and super high luminous flux solution. Providing 95 CRI (typical) at 120000 lm, this high-power LED can be used in a variety of applications demanding high color quality and light output.



ELECTRICAL-OPTICAL CHARACTERISTICS (T _A = 25 °C)							
PARAMETER	SYMBOL	VALUE			UNIT	TOLERANCE	CONDITION
		MIN.	TYP.	MAX.			
Forward voltage	V _f	30	--	41	V	±0.05	I _f = 48A
Luminous flux	Φ _{5600K}	--	120000*	--	lm	--	I _f = 48A
Correlated color temperature	CCT _{5600K}	5300	5600	5900	K	--	I _f = 48A
Color rendering index	Ra	--	95	--	--	±1	I _f = 48A
Viewing angle	2θ _{1/2}	--	120	--	Deg	±5	I _f = 48A

* Theoretical data.

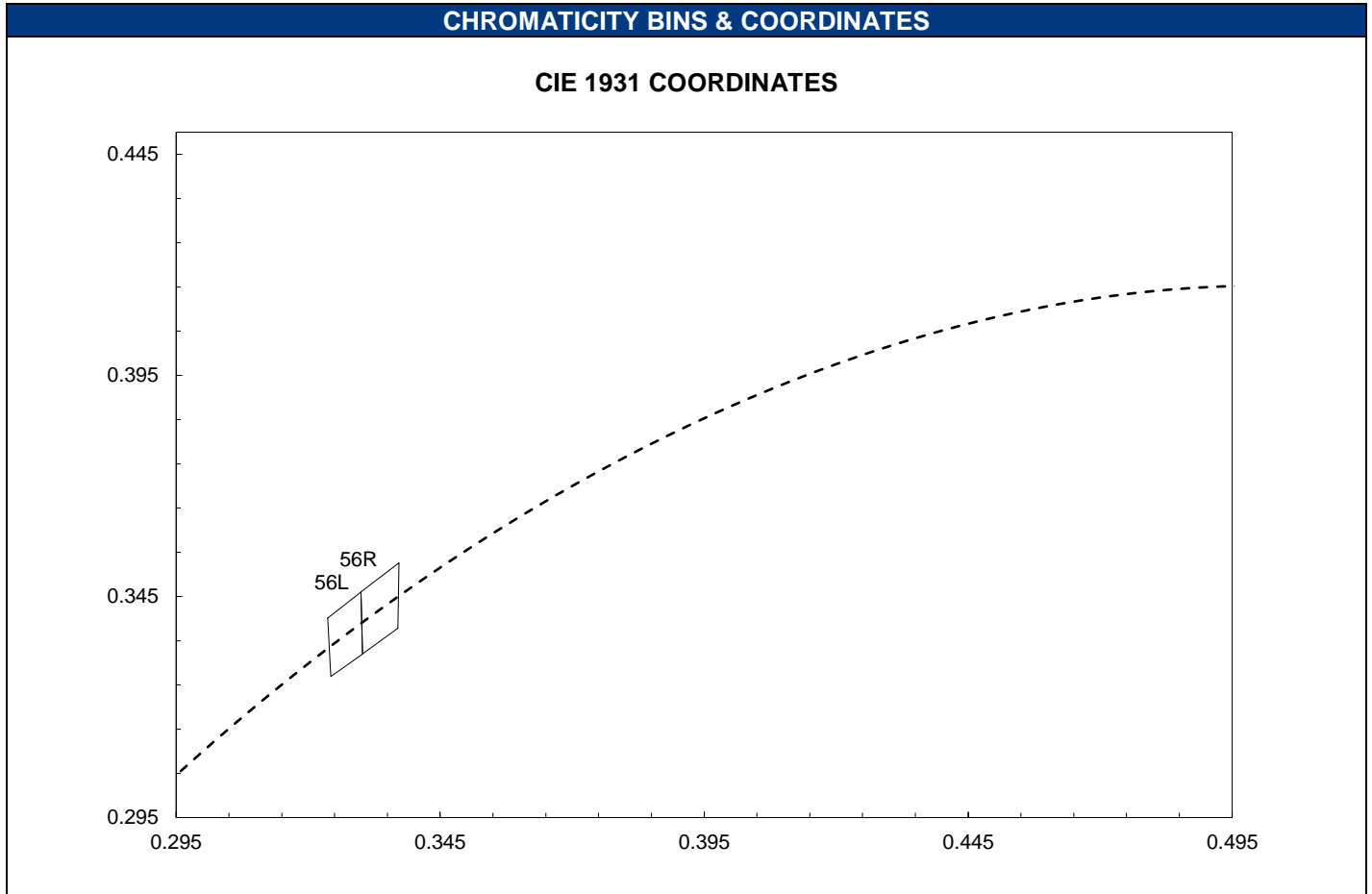
ABSOLUTE MAXIMUM RATING (T _A = 25 °C)			
PARAMETER	SYMBOL	LIMIT	UNIT
Power Consumption	P _D	2000	W
DC Forward Current (pulsed)*	I _{Fp}	60000	mA
DC Forward Current	I _F	48000	mA
Junction Temperature	T _j	125	°C
Case Temperature**	T _s	85	°C
Storage Temperature	T _{stg}	-30 ~ +80	°C

* Pulse width ≤ 0.1ms, Duty ≤ 1/10.

** Theoretical data.

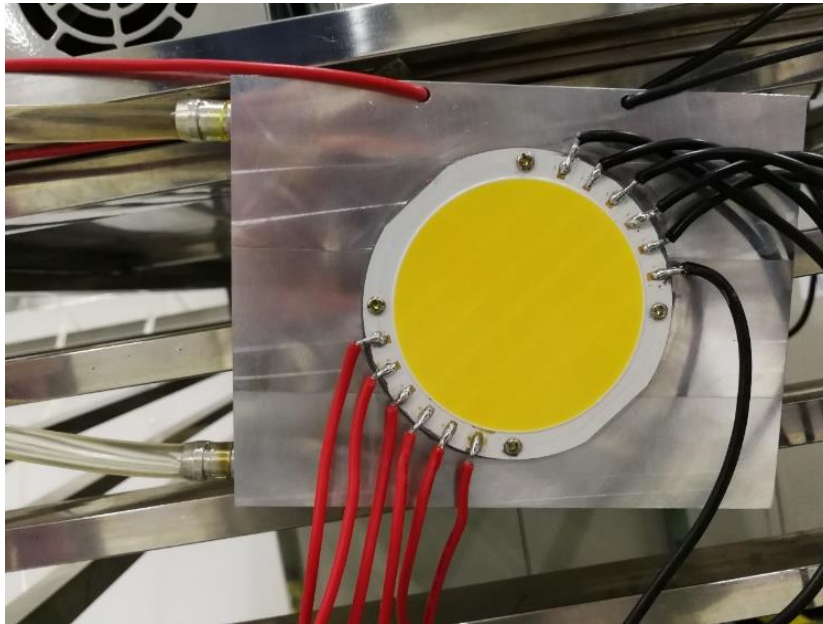
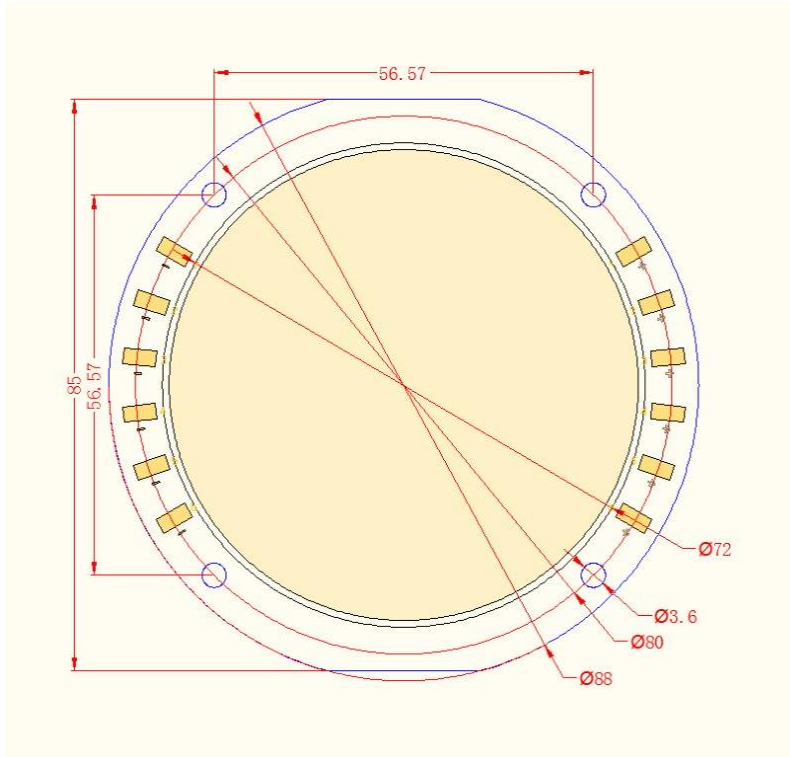
ORDERING INFORMATION		
PART NUMBER	CCT	CHROMATICITY BINS
YJ-BC-900H-G01-56	5600K ± 300K	56L, 56R
YJ-BC-900H-G01-XX		CUSTOM

CHROMATICITY BINS & COORDINATES									
CCT	BIN	CIE 1931 COORDINATES							
		X0	Y0	X1	Y1	X2	Y2	X3	Y3
5600K	56L	0.3237	0.3401	0.3243	0.3269	0.3303	0.3320	0.3300	0.3460
	56R	0.3300	0.3460	0.3303	0.3320	0.3370	0.3378	0.3372	0.3526



MECHANICAL DIMENSION

All dimensions in mm, tolerance unless mentioned is ± 0.1 mm.



MATERIALS	
ITEM	DESCRIPTION
DIE MATERIAL	InGaN
SUBSTRATE	SUPERCONDUCTING ALUMINUM
ENCAPSULANT RESIN MATERIAL	SILICONE + PHOSPHOR

