



RING 12 LED

- Designed for downlights and outdoor area lights
- Suitable for DLC 4.0 and 5.0
- Made with latest LED chips with 80-90 CRIs
- 3-step MacAdam
- Maximum efficiency and better heat dissipation
- UL recognized module and ROHS compliant
- Conformal coating available for outdoor application

1- Module Code

CCT	MODULE CODE	CCT	MODULE CODE
2700K	G012NI084116-2780	5000K	G012NI084116-5080
3000K	G012NI084116-3080	6000K	G012NI084116-6080
3500K	G012NI084116-3580	6500K	G012NI084116-6580
4000K	G012NI084116-4080		

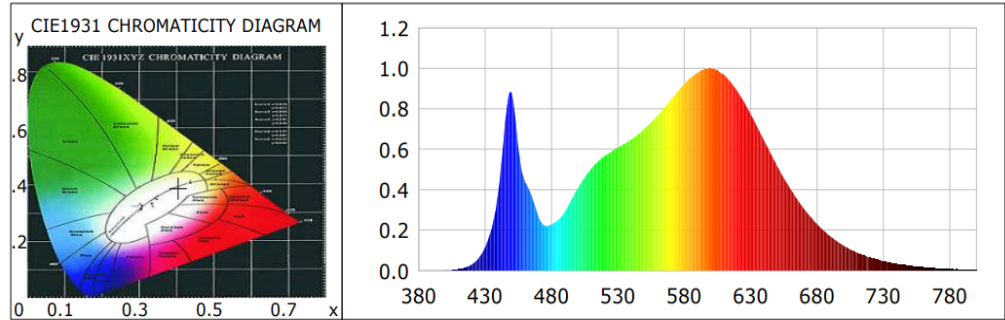
For 90 CRI modules the 80 changes to 90 (e.g. G012NI084116-2790-CC00)

2- Photometric Parameters

INDEX	CCT	Typical Rating	Max Rating
Flux	2700K	1868 lm	4704 lm
	3000K	1907 lm	4802 lm
	3500K	1946 lm	4900 lm
	4000K	2010 lm	5062 lm
Efficacy	2700K	156 lm/W	129 lm/W
	3000K	159 lm/W	132 lm/W
	3500K	163 lm/W	135 lm/W
	4000K	168 lm/W	139 lm/W
Forward CURRENT		350 mA	1000 mA
Forward VOLTAGE		34.2 Vdc	36.36 Vdc
POWER		11.97 W	36.38 W

All calculations are based on using Nichia 219 series 3-step chip, 80CRI in 25°C

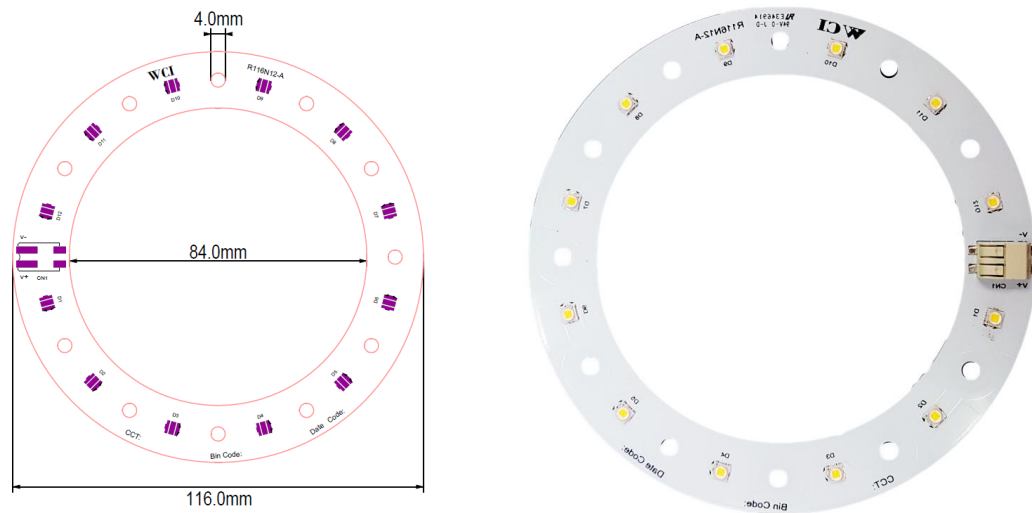
3- Light Source Test Report



Energy Efficiency Class: A++ (EU 874-2012)

Chromaticity coordinates	x=0.4013 y=0.3884	Color Ratio	R=0.200 G=0.768 B=0.032
Peak Wavelength	599.2nm	Half Bandwidth	145.2nm
Dominant Wavelength	580.2nm	Color Purity	0.370
Color Quality Scale	Qa= 83.0, Qf= 83.2, Qp= 82.8, Qg= 92.7		

4- Module Dimension and Schematic



Schematic Circuit: 1S x 12LED =12 LEDs