SPECIFICATION

SM40001

Assembly Type:

Lens 120°
Lens 60°

Color:

W: Cool White
N: Neutral white
S: Warm White
R: Red
G: Green
B: Blue
A: Amber
O: Orange

1: 5W

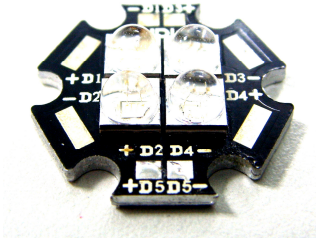
2: 3W

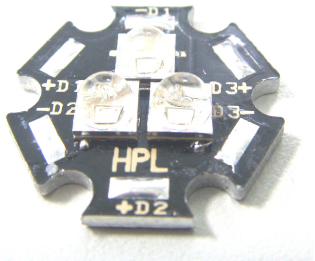
Caution:

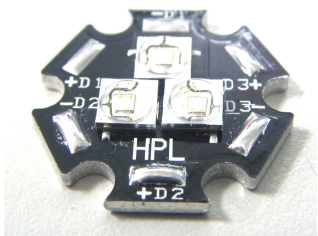
Depends on different chips structures, the thermal pad could has a polarity as Anode. To avoid the risk of circuit-fail, **It is strongly recommended to suppose the condition (Anode – thermal pad)** while designing a circuit.

- **Part Number Matrix**

Type / Color	60°Lens	120°Lens
Cool White	HPL-H44RW1BA	HPL-H44LW1BA
Neutral White	HPL-H44RN1BA	HPL-H44LN1BA
Warm White	HPL-H44RS1BA	HPL-H44LS1BA
Red	HPL-H44RR1BA	HPL-H44LR1BA
Green	HPL-H44RG1BA	HPL-H44LG1BA
Blue	HPL-H44RB1BA	HPL-H44LB1BA
Amber	HPL-H44RA1BA	HPL-H44LA1BA
Orange	HPL-H44RO1BA	HPL-H44LO1BA







SM40001~2
Color: WNSRGBAO
10/14/2008

● Luminous Flux For SM40001

(Tj=25℃)

Color	Luminous Flux					
	Symbol	MIN.	TYP.	MAX.	Test Condition	Unit
Cool White	Φ_V	-	300	-	I_F = 350mA	lm
Neutral White	Φ_V	-	240	-	I_F = 350mA	lm
Warm White	Φ_V	-	200	-	I_F = 350mA	lm
Red	Φ_V	-	140	-	I_F = 350mA	lm
Green	Φ_V	-	220	-	I_F = 350mA	lm
Blue	Φ_V	-	40	-	I_F = 350mA	lm
Amber	Φ_V	-	136	-	I_F = 350mA	lm
Orange	Φ_V	-	152	-	I_F = 350mA	lm

● Luminous Flux For SM40002

(Tj=25℃)

Color	Luminous Flux					
	Symbol	MIN.	TYP.	MAX.	Test Condition	Unit
Cool White	Φ_V	-	210	-	I_F = 350mA	lm
Neutral White	Φ_V	-	180	-	I_F = 350mA	lm
Warm White	Φ_V	-	150	-	I_F = 350mA	lm
Red	Φ_V	-	105	-	I_F = 350mA	lm
Green	Φ_V	-	165	-	I_F = 350mA	lm
Blue	Φ_V	-	30	-	I_F = 350mA	lm
Amber	Φ_V	-	100	-	I_F = 350mA	lm
Orange	Φ_V	-	114	-	I_F = 350mA	lm

● Color Temperature or Dominate wavelength

(Tj=25℃)

Color	Color Temperature or Dominate Wavelength					
	Symbol	MIN.	TYP.	MAX.	Test Condition	Unit
Cool White	CCT	4500	5650	10000	IF = 350mA	°K
Neutral White	CCT	3500	3800	4500	IF = 350mA	°K
Warm White	CCT	2670	2850	3500	IF = 350mA	°K
Red	□d	620	-	630	IF = 350mA	nm
Green	□d	520	-	530	IF = 350mA	nm
Blue[1]	□d	460	-	475	IF = 350mA	nm
Amber	□d	584.5	-	594.5	IF = 350mA	nm
Orange	□d	610	-	620	IF = 350mA	nm

Note: 1. Royal Blue Products: Wavelength defined is Peak Wavelength ($\lambda_p = 445 \sim 455\text{nm}$).

● Color rendering Index (CRI, Ra value)

(Tj=25℃)

Color	Color Temperature or Dominate Wavelength					
	Symbol	MIN.	TYP.	MAX.	Test Condition	Unit
Cool White	Ra	65	70	-	IF = 350mA	-
Neutral White		70	75	-	IF = 350mA	-
Warm White		75	80	-	IF = 350mA	-

.

- **Typical Radiation Pattern**