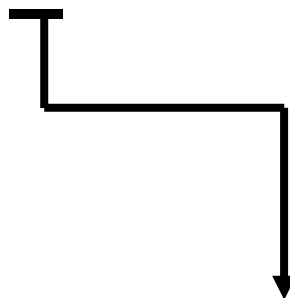


SPECIFICATION

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

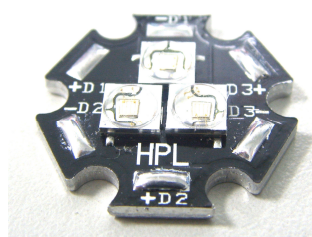
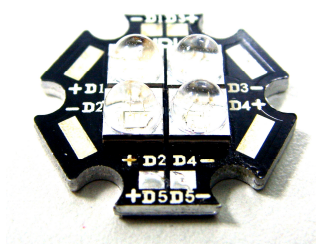
2: 3W

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



● Luminous Flux For SM40001

(Tj=25℃)

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

● Luminous Flux For SM40002

(Tj=25℃)

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

- Color Temperature or Dominate wavelength

(Tj=25°C)

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	λd	620	-	630	IF = 350mA	nm
Green	λd	520	-	530	IF = 350mA	nm
Blue ¹	λd	460	-	475	IF = 350mA	nm
Amber	λd	584.5	-	594.5	IF = 350mA	nm
Orange	λd	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°C)

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

