



Product Code System

Through-Hole parts

Factory ID

X₁ X₂ —

PL

Package Type, Color and Lens Details

X₃

X₄

X₅ X₆

X₇

X₈

X₉ X₁₀

X₁₁

Lead Options & Delivery

— X₁₂

X₁₃

Package Type

L=Lamp-TH

Product Series

Emitted Color

BL=Blue (470nm)
 AM=Amber (592nm)
 RE=Red (630nm)
 UW=White

LensSize

5=5mm

Package Shape

N=Normal Round
 B=Bullet Shape

Viewing Angle

18=18 deg
 20=20 deg
 30=30 deg
 60=60deg

Lens/Encapsulation

C=Clear (water)
 M=Milky Diffused

Lead Options

N=No Stoppers

Delivery Options

A=Tape & Ammo



Rank Codes (Binning)

Rank Codes (bins) for AlInGaP (Red and Amber) and InGaN (Blue) LED Lamps

Amber Color Rank Limits (nm at 20 mA)

Rank ID	Min.	Max.
1	585	587.5
2	587.5	590
3	590	592.5
4	592.5	595

Red Rank Limits (nm at 20 mA)

Rank ID	Min.	Max.
1	615	620
2	620	625
3	625	630

Intensity (Iv) Rank Limits (mcd at 20 mA)

Rank ID	Min.	Max.
L	400	520
M	520	680
N	680	880
P	880	1150
Q	1150	1500
R	1500	1900
S	1900	2500
T	2500	3200
U	3200	4200
V	4200	5500
W	5500	7200
X	7200	9300
Y	9300	12000
Z	12000	15600

Blue Color Rank Limits (nm at 20 mA)

Rank ID	Min.	Max.
1	460	465
2	465	470
3	470	475
4	475	480

Notes:

1. Wavelength values measured and listed are for Dominant Wavelength.
2. Tolerance for each Iv Rank limit is $\pm 15\%$
3. Tolerance for each Iv Rank limit is ± 0.5 nm



Rank Codes (Binning)

Rank Codes (bins) for White LED Lamps

5mm 20 degree LED Lamps (5B20C series)

Intensity (Iv) Rank Limits (mcd at 20 mA)

Rank ID	Min.	Max.
R	5500	7800
S	7800	11000

5mm 60 degree LED Lamps (5N60M series)

Intensity (Iv) Rank Limits (mcd at 20 mA)

Rank ID	Min.	Max.
R	900	1300
S	1300	1800

White Color Rank Color Coordinate Limits (at 20 mA)

	Rank B1			
x	0.287	0.283	0.330	0.330
y	0.295	0.305	0.360	0.339

	Rank B2			
x	0.296	0.287	0.330	0.330
Y	0.276	0.295	0.339	0.318

	Rank C			
x	0.330	0.330	0.361	0.356
Y	0.318	0.360	0.385	0.351

Notes:

1. Tolerance for each Iv Rank limit is $\pm 15\%$
2. Tolerance for each Color Coordinate limit is ± 0.005



Box / Bag Labeling Details

Example of the label in a box with an Ammo Pack of **White 20** degree lamps

BRITE-LED OPTOELECTRONICS
PART: PL-LBUW5B20C-NA
Color Rank: B
Iv Rank: S
LOT #:
QTY: 2000 pcs

Rank Codes: Binning color and Iv letter code information from corresponding bin code tables.

Lot number for Internal reference



Box / Bag Labeling Details

Example of the label in a box with an Ammo Pack of Amber 18 degree lamps

BRITE-LED OPTOELECTRONICS
PART: PL-LSAM5B18C-NA
Color Rank: 3
Iv Rank: VW
LOT #:
QTY: 2000 pcs

Rank Codes: Binning color and Iv letter code information from corresponding bin code tables.

Lot number for Internal reference