

High Power Solid-State LED Light Source

LUSTRON DX4

Introduction

For a brighter solid-state light source, Lustrous Technology is proud to release the new **LUSTRON DX4**. Ideal for your high lumen output design, **LUSTRON DX4** has the ability to generate extremely high lumen output from 1,000 to 2,000 lm on one single LED product. The **LUSTRON DX4** is energy efficient, and provides high efficiency while performing its high lumen for all types of Commercial and Architectural applications. A 20-watt driver is all you need to start the high lumen engine for your next bright design.

Note: To optimize the performance and lifetime, please maintain a constant current of less than the indicated T_b at 50° C.

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LUSTRON DX4 Part Number Matrix

Table.1

| Color | P/N |
|---------------|------------------------|
| Warm White | L420CLHWBA(28V,750mA) |
| | L420CLDYBA(14V,1500mA) |
| Neutral White | L420MWHWBA(28V,750mA) |
| | L420MWDYBA(14V,1500mA) |
| Cool White | L420NHWDA(28V,750mA) |
| | L420NWDYDA(14V,1500mA) |

LUSTRON DX4 Part Number Matrix

| | |
|---------------|----------|
| Chip Material | GaN Base |
|---------------|----------|

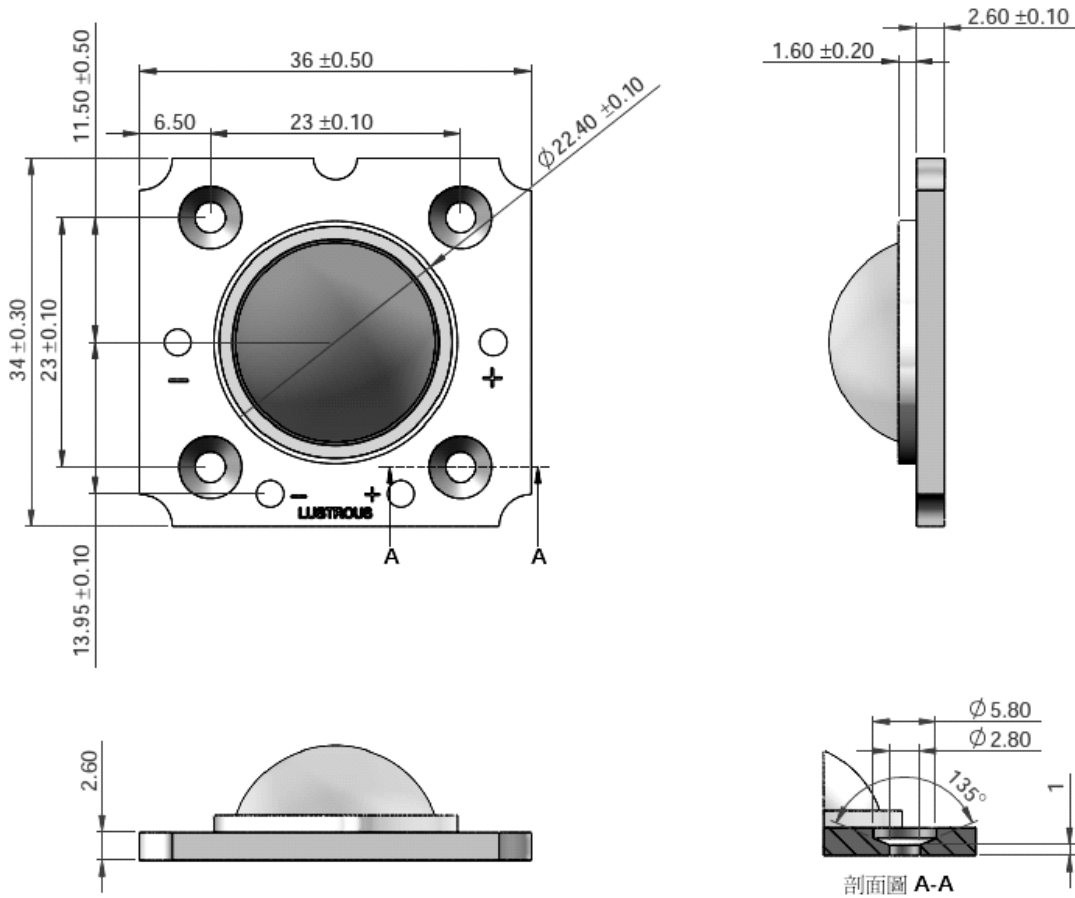
LUSTRON DX4 Part Number Matrix

| |
|----------------|
| 16 Chips Array |
|----------------|

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Mechanical Dimensions

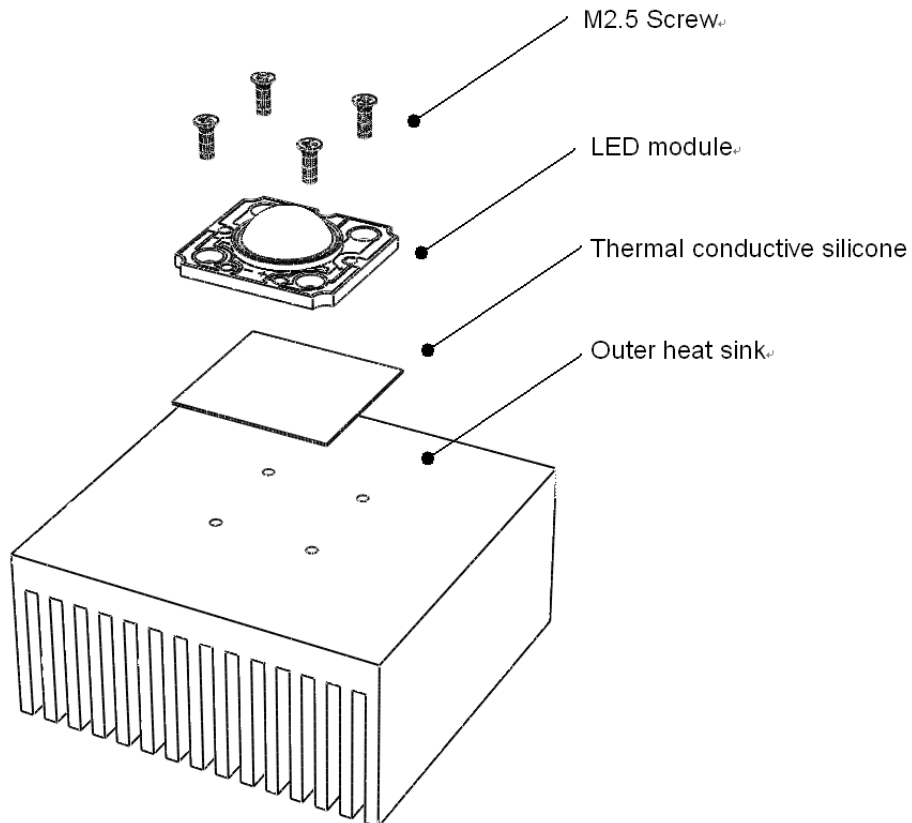
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Note: These drawings are not for scale. All dimensions are in millimeters.

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Recommended installation screw pitch



Warning:

Do not touch the lighting surface area during installation.

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Flux Characteristics At Junction Temperature T_j = 25^oC

Table.2

| Color | Luminous flux (lm) | | |
|--|--------------------|---------|---------|
| | Minimum | Typical | Maximum |
| Warm White (3000K) L420CLHWBA L420CLDYBA | 1100 lm | 1300 lm | 1400 lm |
| Neutral White (4000K) L420MWHWBA L420MWDYBA | 1400 lm | 1500 lm | 1800 lm |
| Cool White (5000K) L420NWHWDA L420NWDYDA | 1800 lm | 2000 lm | 2200 lm |

Note1: Luminous flux is measured in total power with a tolerance rate of +/- 10%. Minimum luminous flux performance is guaranteed from the above data.

Note2: Higher luminous flux will be available in the future.

Optical Characteristics

Table.3

| Color | λ _d (nm) or CCT(K) | | | Viewing Angle (degrees) | CRI |
|---------------|-----------------------------------|-------|--------|----------------------------|-----|
| | Min | Typ | Max | | |
| Warm White | 2600K | 3000K | 3250K | ~140 | 85 |
| Neutral White | 3250K | 4000K | 4750K | | 80 |
| Cool White | 4750K | 5000K | 10000K | | 65 |

Note1: CRI value is measured with tolerable errors of +/- 10%

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Electrical Characteristics

Table.4

| Color | Forward Voltage (V) for 750 mA forward current | | |
|--|--|-------|------|
| | Min | Typ | Max |
| | L320CLHWBA L320MWHWBA L320NWHWDA | 23.04 | 25.2 |
| L320CLDYBA L320MWDYBA L320NWDYDA | 11.52 | 12.6 | 14.4 |

Note1: Lustrous Technology allows a tolerance rate of +/- 10% for Lustrous products voltage measurement.

Note2: All figures are measured from the above forward current at 750mA.

Absolute Maximum Ratings

Table.5

| Parameters | For 1000mA forward current | |
|---------------------------------|--|--|
| | L420CLHWBA/ L420MWHWBA/ L420NWHWDA | |
| Advised DC Forward Current (mA) | 750 | |
| Max. DC Forward Current (mA) | 1000 | |
| LED Junction Temperature (°C) | 110 | |
| ESD Sensitivity | +/- 4kV (HBM) | |
| Thermal Resistance (°C/W) | ~0.5 | |
| Operating Temperature (°C) | -20 ~ +80 | |
| Storage Temperature (°C) | -20 ~ +50 | |
| Soldering Temperature (°C) | 260 (duration should be less than 5 seconds) | |

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| Parameters | For 2000mA forward current | |
|---------------------------------|--|--|
| | L420CLDYBA/ L420MWDYBA/ L420NWDYDA | |
| Advised DC Forward Current (mA) | 1500 | |
| Max. DC Forward Current (mA) | 2000 | |
| LED Junction Temperature (°C) | 110 | |
| ESD Sensitivity | +/- 4kV (HBM) | |
| Thermal Resistance (°C/W) | ~0.5 | |
| Operating Temperature (°C) | -20 ~ +80 | |
| Storage Temperature (°C) | -20 ~ +50 | |
| Soldering Temperature (°C) | 260 (duration should be less than 5 seconds) | |

Note1: To avoid exceeding the maximum junction temperature, please set the forward current with caution.

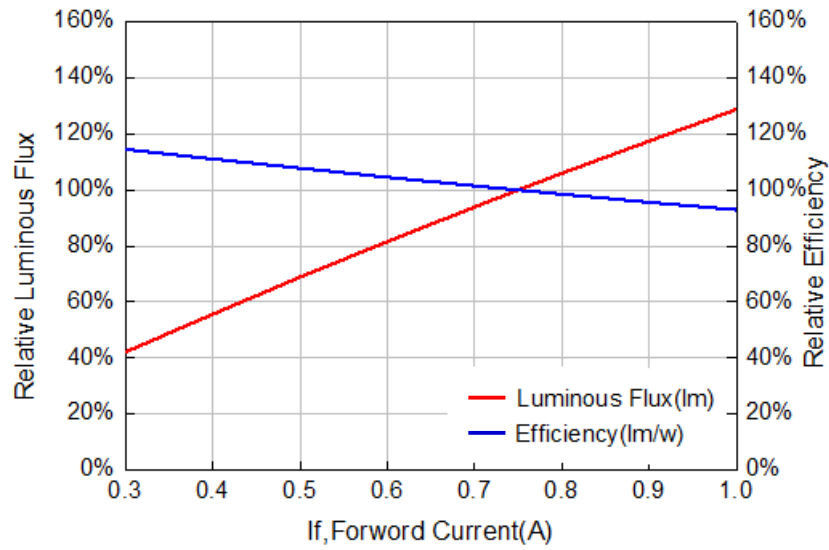
Note2: If you decide to set the maximum DC current for Lustrous products, please pay attention on the thermal design of your luminaries. solution should be considered more serious.

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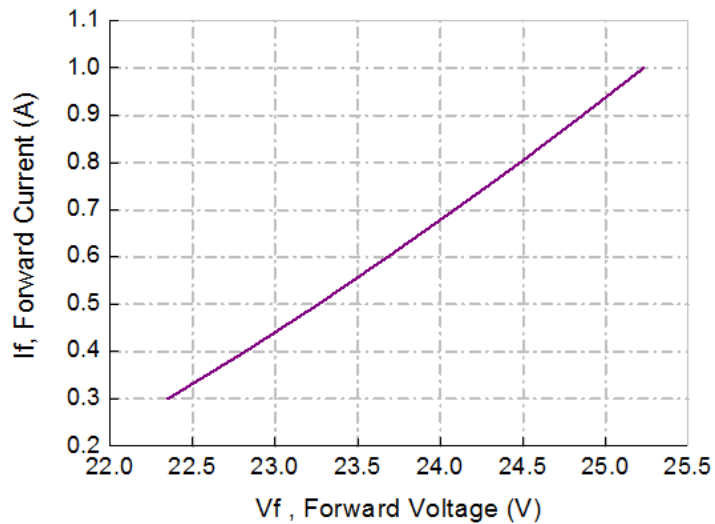
Relative Intensity vs. Current (T_j = 25°C)

L420CLHWBA/ L420MWHWBA/ L420NHWDA



Forward Voltage vs. Current (T_j = 25°C)

L420CLHWBA/ L420MWHWBA/ L420NHWDA

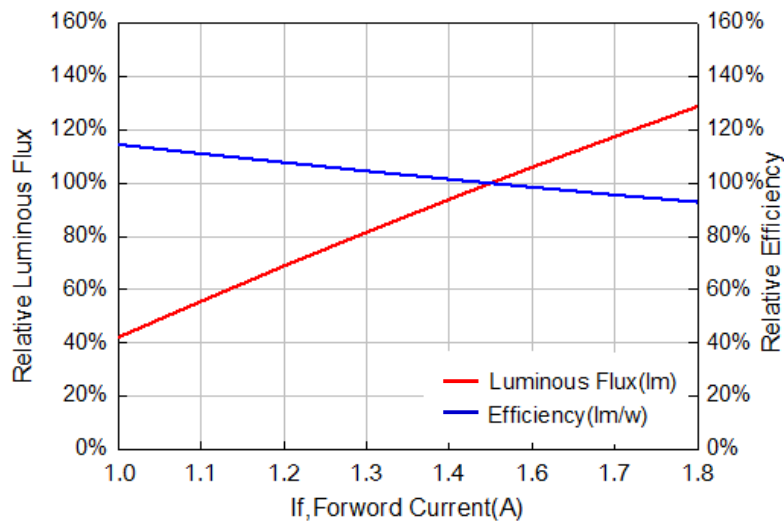


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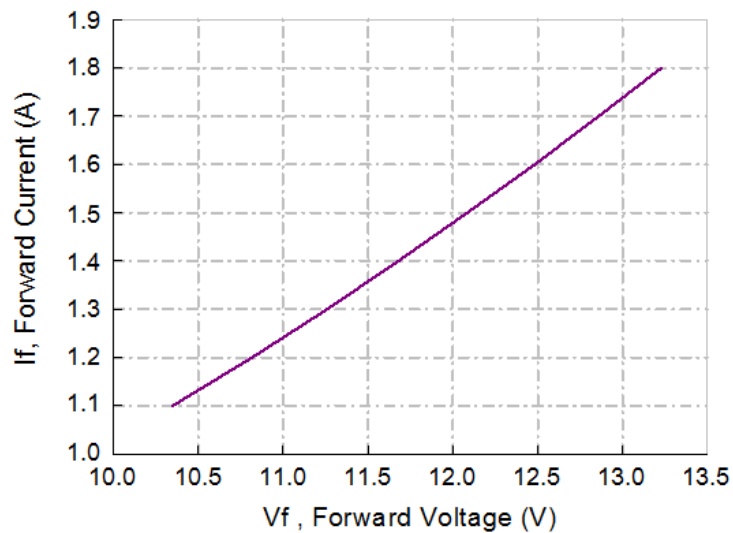
Relative Intensity vs. Current (T_j = 25°C)

L420CLDYBA/ L420MWDYBA/ L420NWDYDA



Forward Voltage vs. Current (T_j = 25°C)

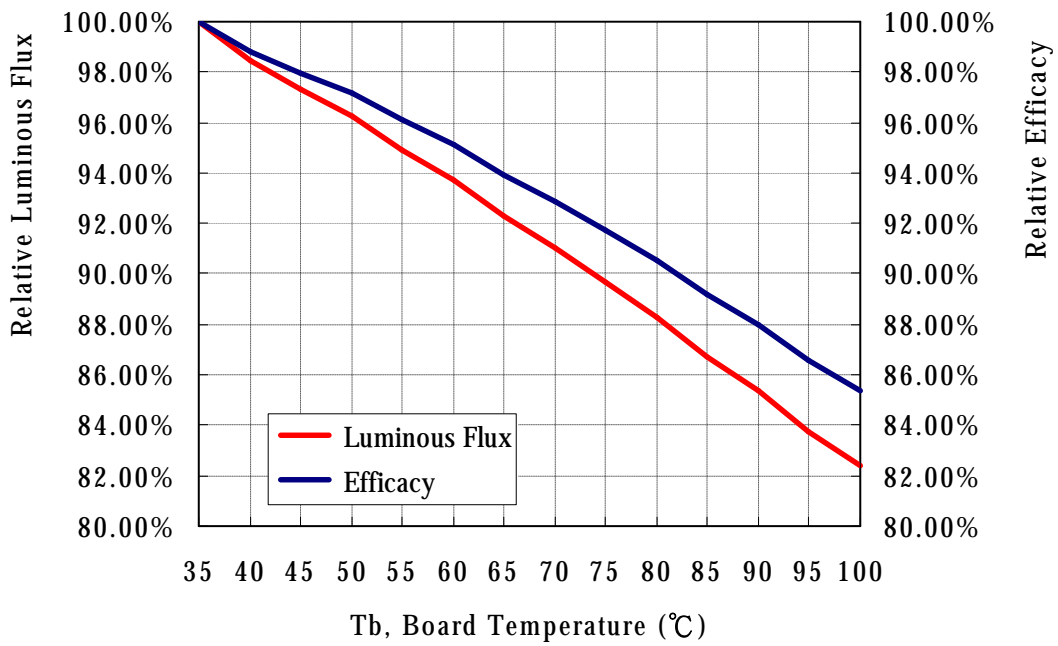
L420CLDYBA/ L420MWDYBA/ L420NWDYDA



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Photometric Output vs. Board Temperature

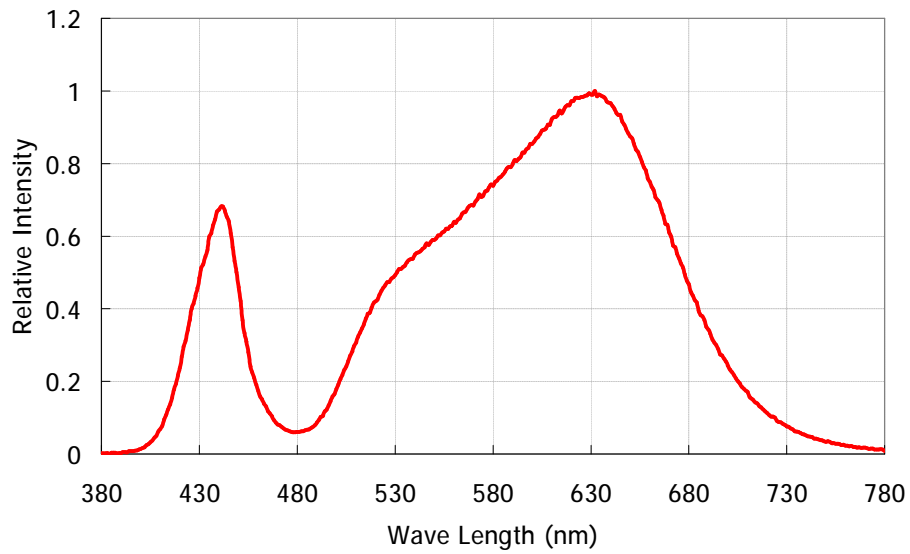


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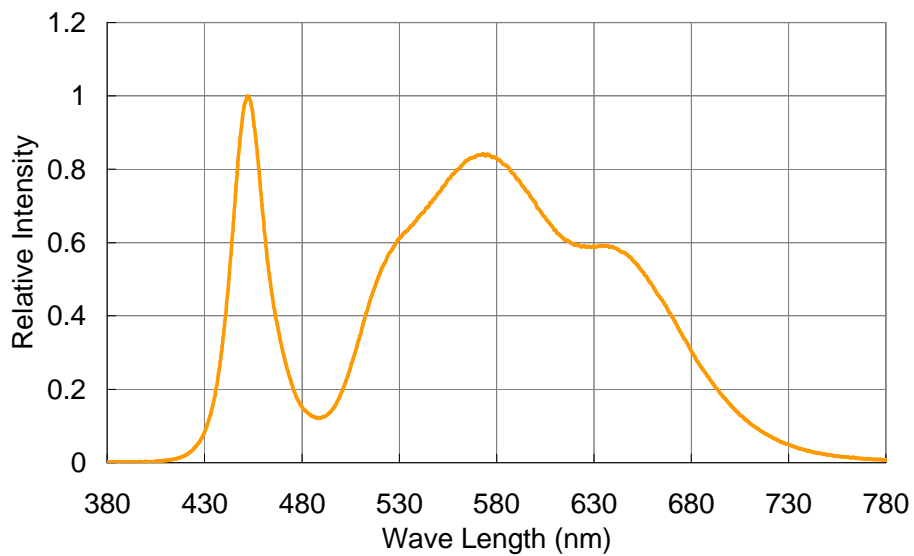
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Relative Spectral Power

Warm White (3000K)



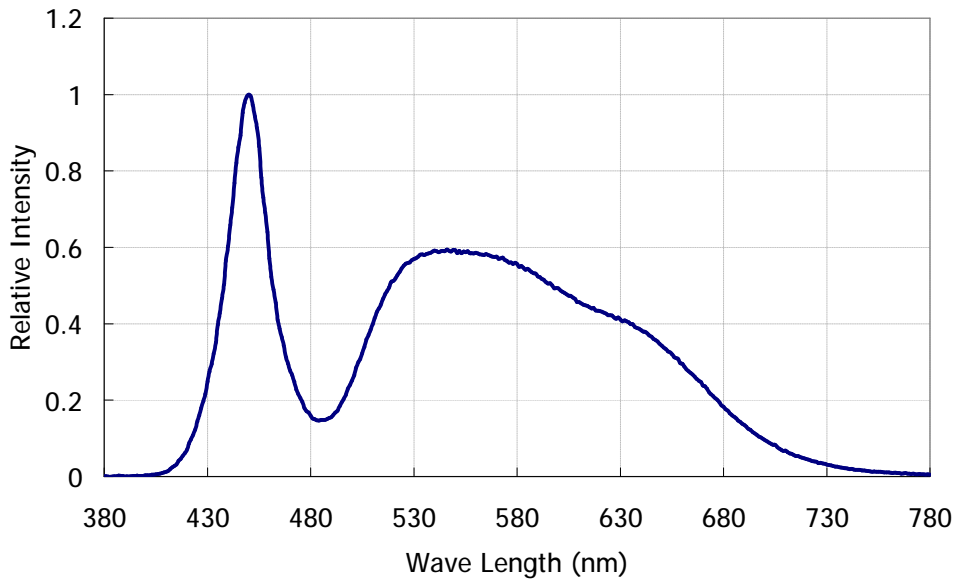
Neutral White (4000K)



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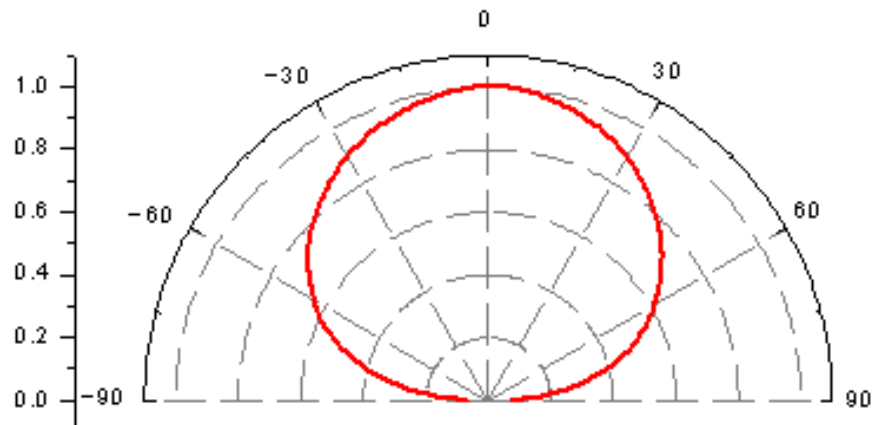
Cool White (5000K)



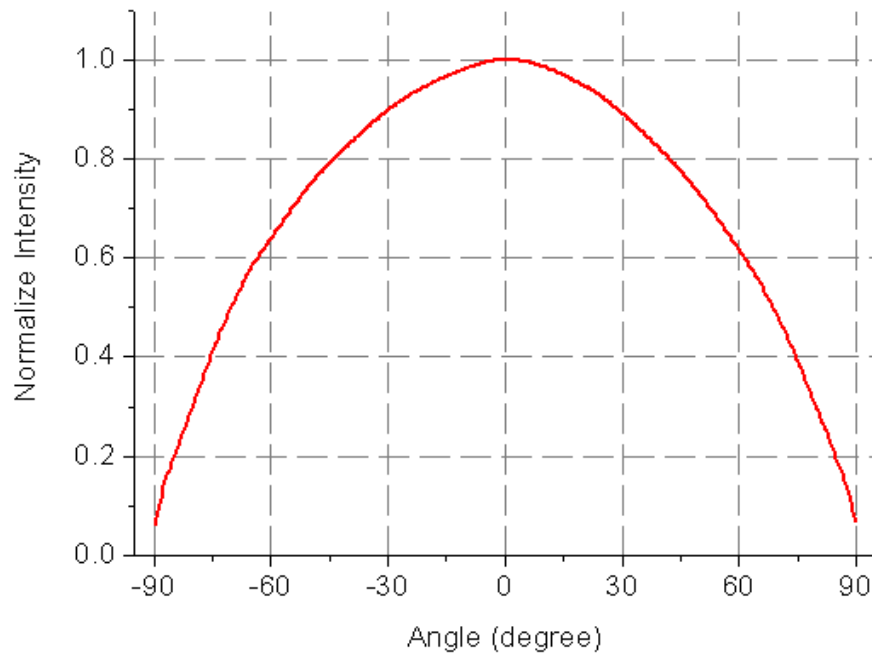
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Typical Angular Beam Profile, $T_j=25^\circ\text{C}$ *



View Angle: 140 degree



Note: Detailed beam profile data is now available

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Product Binning

In the manufacturing process, there is a natural variation of specifications between LEDs. In order to minimize variation in the end product of application, Lustrous Technology uses the current ANSI code binning procedures to measure its products for performance in luminous flux and chromaticity.

The tables below list the standard photometric bins for Lustrous LED products (tested and binned at the indicated test current). **Product availability in a particular bin varies by product and production run. Please contact your Lustrous sales representative for further information regarding product availability.**

Binning Condition

Table.6

| Color | Forward Current (mA) |
|------------|----------------------|
| L420CLHWBA | 750 |
| L420MWHWBA | |
| L420NWHWDA | |
| L420CLDYBA | 1500 |
| L420MWDYBA | |
| L420NWDYDA | |

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Luminous Flux Binning Information *

Table.7

| BIN Code | Lv (lm) | |
|----------|---------|------|
| | min. | max. |
| A | 5 | 20 |
| B | 20 | 40 |
| C | 40 | 60 |
| D | 60 | 80 |
| E | 80 | 110 |
| F | 110 | 140 |
| G | 140 | 170 |
| H | 170 | 200 |
| I | 200 | 240 |
| J | 240 | 280 |
| K | 280 | 320 |
| L | 320 | 360 |
| M | 360 | 400 |

| BIN Code | Lv (lm) | |
|----------|---------|------|
| | min. | max. |
| N | 400 | 450 |
| O | 450 | 500 |
| P | 500 | 580 |
| Q | 580 | 660 |
| R | 660 | 740 |
| S | 740 | 860 |
| T | 860 | 980 |
| U | 980 | 1100 |
| V | 1100 | 1300 |
| W | 1300 | 1600 |
| X | 1600 | 2000 |
| Y | 2000 | 2500 |
| Z | 2500 | 3200 |

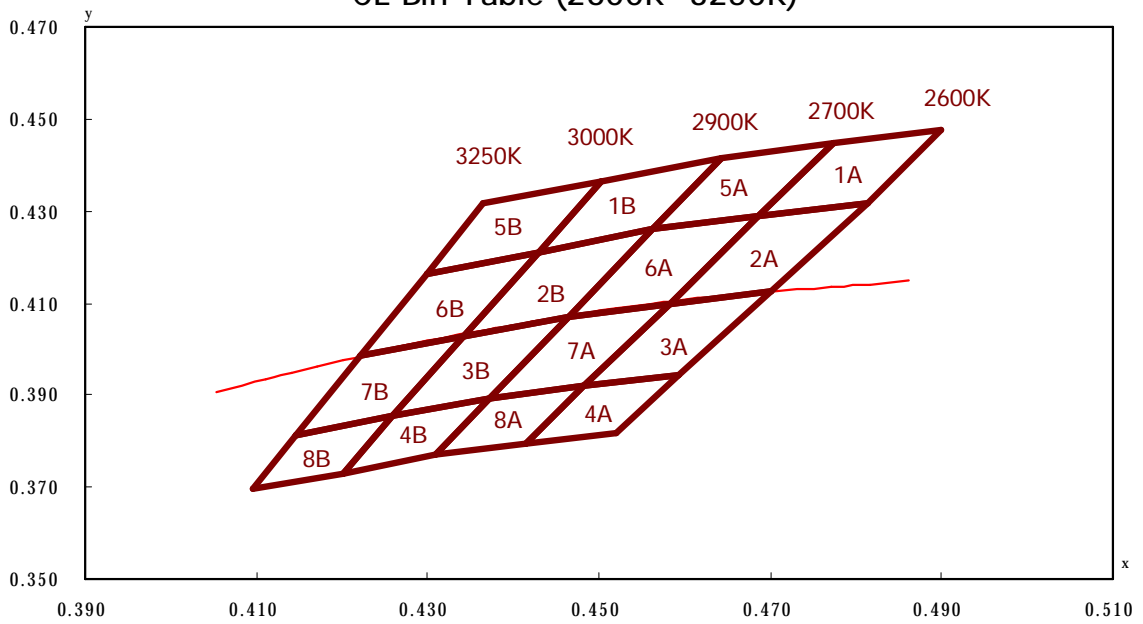
Note: Luminous flux is measured in total power with a tolerance rate of +/- 5%.

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Chromaticity Binning Information **

Warm White

CL Bin Table (2600K~3250K)



Note: Chromaticity is measured in Chromaticity Coordinate (CIE 1931-xy) with a tolerance rate of +/- 10%.

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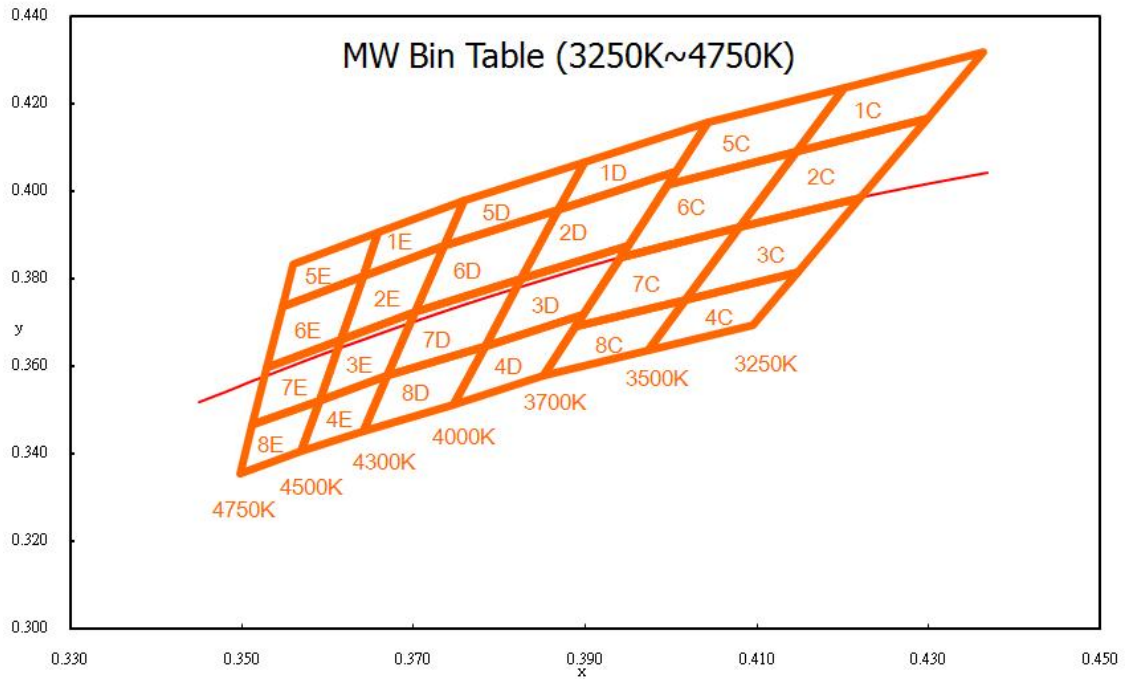
Table.8

| Warm-White Bin Coordinates | | | | | | | | | | | | |
|----------------------------|------|------|-------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| CCT (K) | | | BIN CODE | Chromaticity Coordinate (CIE 1931-xy) | | | | | | | | |
| Min | Typ. | Max | | x1 | y1 | x2 | y2 | x3 | y3 | x4 | y4 | |
| 2600 | 2700 | 2900 | A | 1A | 0.4687 | 0.4289 | 0.4774 | 0.4447 | 0.4900 | 0.4477 | 0.4813 | 0.4319 |
| | | | | 2A | 0.4582 | 0.4099 | 0.4687 | 0.4289 | 0.4813 | 0.4319 | 0.4700 | 0.4126 |
| | | | | 3A | 0.4483 | 0.3919 | 0.4582 | 0.4099 | 0.4700 | 0.4126 | 0.4593 | 0.3944 |
| | | | | 4A | 0.4414 | 0.3794 | 0.4483 | 0.3919 | 0.4593 | 0.3944 | 0.4519 | 0.3818 |
| | | | | 5A | 0.4562 | 0.4260 | 0.4642 | 0.4416 | 0.4774 | 0.4447 | 0.4687 | 0.4289 |
| | | | | 6A | 0.4465 | 0.4071 | 0.4562 | 0.4260 | 0.4687 | 0.4289 | 0.4582 | 0.4099 |
| | | | | 7A | 0.4373 | 0.3893 | 0.4465 | 0.4071 | 0.4582 | 0.4099 | 0.4483 | 0.3919 |
| | | | | 8A | 0.4309 | 0.3769 | 0.4373 | 0.3893 | 0.4483 | 0.3919 | 0.4414 | 0.3794 |
| 2900 | 3000 | 3250 | B | 1B | 0.4430 | 0.4212 | 0.4503 | 0.4366 | 0.4642 | 0.4416 | 0.4562 | 0.4260 |
| | | | | 2B | 0.4342 | 0.4028 | 0.4430 | 0.4212 | 0.4562 | 0.4260 | 0.4465 | 0.4071 |
| | | | | 3B | 0.4259 | 0.3853 | 0.4342 | 0.4028 | 0.4465 | 0.4071 | 0.4373 | 0.3893 |
| | | | | 4B | 0.4201 | 0.3731 | 0.4259 | 0.3853 | 0.4373 | 0.3893 | 0.4309 | 0.3769 |
| | | | | 5B | 0.4299 | 0.4165 | 0.4364 | 0.4316 | 0.4503 | 0.4366 | 0.4430 | 0.4212 |
| | | | | 6B | 0.4221 | 0.3984 | 0.4299 | 0.4165 | 0.4430 | 0.4212 | 0.4342 | 0.4028 |
| | | | | 7B | 0.4147 | 0.3814 | 0.4221 | 0.3984 | 0.4342 | 0.4028 | 0.4259 | 0.3853 |
| | | | | 8B | 0.4095 | 0.3694 | 0.4147 | 0.3814 | 0.4259 | 0.3853 | 0.4201 | 0.3731 |

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Neutral White



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Table.9

| Natural White Bin Table | | | | | | | | | | | | |
|-------------------------|------|------|-------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| CCT (K) | | | BIN CODE | Chromaticity Coordinate (CIE 1931-xy) | | | | | | | | |
| Min | Typ. | Max | | x1 | y1 | x2 | y2 | x3 | y3 | x4 | y4 | |
| 3250 | 3500 | 3700 | C | 1C | 0.4146 | 0.4089 | 0.4202 | 0.4235 | 0.4364 | 0.4316 | 0.4299 | 0.4165 |
| | | | | 2C | 0.4080 | 0.3916 | 0.4146 | 0.4089 | 0.4299 | 0.4165 | 0.4221 | 0.3984 |
| | | | | 3C | 0.4017 | 0.3751 | 0.4080 | 0.3916 | 0.4221 | 0.3984 | 0.4147 | 0.3814 |
| | | | | 4C | 0.3973 | 0.3635 | 0.4017 | 0.3751 | 0.4147 | 0.3814 | 0.4095 | 0.3694 |
| | | | | 5C | 0.3996 | 0.4015 | 0.4043 | 0.4157 | 0.4202 | 0.4235 | 0.4146 | 0.4089 |
| | | | | 6C | 0.3941 | 0.3848 | 0.3996 | 0.4015 | 0.4146 | 0.4089 | 0.4080 | 0.3916 |
| | | | | 7C | 0.3889 | 0.3690 | 0.3941 | 0.3848 | 0.4080 | 0.3916 | 0.4017 | 0.3751 |
| | | | | 8C | 0.3852 | 0.3578 | 0.3889 | 0.3690 | 0.4017 | 0.3751 | 0.3973 | 0.3635 |
| 3700 | 4000 | 4300 | D | 1D | 0.3869 | 0.3958 | 0.3899 | 0.4066 | 0.4043 | 0.4157 | 0.4006 | 0.4044 |
| | | | | 2D | 0.3825 | 0.3798 | 0.3869 | 0.3958 | 0.4006 | 0.4044 | 0.3950 | 0.3875 |
| | | | | 3D | 0.3783 | 0.3646 | 0.3825 | 0.3798 | 0.3950 | 0.3875 | 0.3898 | 0.3716 |
| | | | | 4D | 0.3746 | 0.3513 | 0.3783 | 0.3646 | 0.3898 | 0.3716 | 0.3852 | 0.3578 |
| | | | | 5D | 0.3736 | 0.3874 | 0.3759 | 0.3978 | 0.3899 | 0.4066 | 0.3869 | 0.3958 |
| | | | | 6D | 0.3702 | 0.3722 | 0.3736 | 0.3874 | 0.3869 | 0.3958 | 0.3825 | 0.3798 |
| | | | | 7D | 0.3670 | 0.3578 | 0.3702 | 0.3722 | 0.3825 | 0.3798 | 0.3783 | 0.3646 |
| | | | | 8D | 0.3642 | 0.3450 | 0.3670 | 0.3578 | 0.3783 | 0.3646 | 0.3746 | 0.3513 |
| 4300 | 4500 | 4750 | E | 1E | 0.3641 | 0.3804 | 0.3659 | 0.3904 | 0.3759 | 0.3978 | 0.3736 | 0.3874 |
| | | | | 2E | 0.3615 | 0.3659 | 0.3641 | 0.3804 | 0.3736 | 0.3874 | 0.3702 | 0.3722 |
| | | | | 3E | 0.3590 | 0.3521 | 0.3615 | 0.3659 | 0.3702 | 0.3722 | 0.3670 | 0.3578 |
| | | | | 4E | 0.3569 | 0.3407 | 0.3590 | 0.3521 | 0.3670 | 0.3578 | 0.3642 | 0.3450 |
| | | | | 5E | 0.3548 | 0.3736 | 0.3560 | 0.3832 | 0.3659 | 0.3904 | 0.3641 | 0.3804 |

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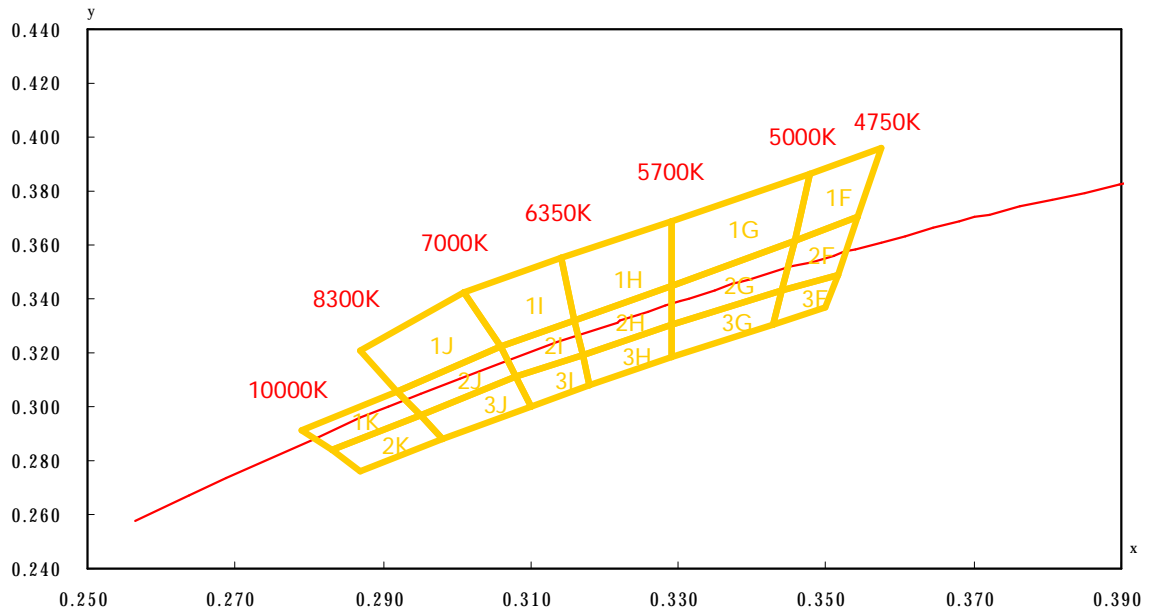
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| | | | | | | | | | | | | |
|--|--|--|--|----|--------|--------|--------|--------|--------|--------|--------|--------|
| | | | | 6E | 0.3529 | 0.3597 | 0.3548 | 0.3736 | 0.3641 | 0.3804 | 0.3615 | 0.3659 |
| | | | | 7E | 0.3512 | 0.3465 | 0.3529 | 0.3597 | 0.3615 | 0.3659 | 0.3590 | 0.3521 |
| | | | | 8E | 0.3498 | 0.3355 | 0.3512 | 0.3465 | 0.3590 | 0.3521 | 0.3569 | 0.3407 |

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Cool White

NW Bin Table (4750K~10000K)



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Table.10

| Cool White Bin Table | | | | | | | | | | | | |
|----------------------|------|-------|-------------|---------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| CCT (K) | | | BIN CODE | Chromaticity Coordinate (CIE 1931-xy) | | | | | | | | |
| Min | Typ. | Max | | x1 | y1 | x2 | y2 | x3 | y3 | x4 | y4 | |
| 4750 | 4850 | 5000 | F | 1F | 0.3479 | 0.3867 | 0.3457 | 0.3617 | 0.3544 | 0.3704 | 0.3576 | 0.3957 |
| | | | | 2F | 0.3457 | 0.3617 | 0.3440 | 0.3429 | 0.3515 | 0.3487 | 0.3544 | 0.3704 |
| | | | | 3F | 0.3440 | 0.3429 | 0.3429 | 0.3307 | 0.3500 | 0.3371 | 0.3515 | 0.3487 |
| 5000 | 5300 | 5700 | G | 1G | 0.3290 | 0.3690 | 0.3290 | 0.3450 | 0.3457 | 0.3617 | 0.3479 | 0.3867 |
| | | | | 2G | 0.3457 | 0.3617 | 0.3440 | 0.3429 | 0.3290 | 0.3300 | 0.3290 | 0.3450 |
| | | | | 3G | 0.3290 | 0.3300 | 0.3290 | 0.3180 | 0.3429 | 0.3307 | 0.3440 | 0.3429 |
| 5700 | 6000 | 6350 | H | 1H | 0.3290 | 0.3690 | 0.3290 | 0.3450 | 0.3160 | 0.3320 | 0.3140 | 0.3550 |
| | | | | 2H | 0.3290 | 0.3450 | 0.3290 | 0.3300 | 0.3170 | 0.3190 | 0.3160 | 0.3320 |
| | | | | 3H | 0.3170 | 0.3190 | 0.3290 | 0.3300 | 0.3290 | 0.3180 | 0.3180 | 0.3080 |
| 6350 | 6500 | 7000 | I | 1I | 0.3140 | 0.3550 | 0.3160 | 0.3320 | 0.3060 | 0.3220 | 0.3010 | 0.3420 |
| | | | | 2I | 0.3160 | 0.3320 | 0.3170 | 0.3190 | 0.3080 | 0.3110 | 0.3060 | 0.3220 |
| | | | | 3I | 0.3080 | 0.3110 | 0.3170 | 0.3190 | 0.3180 | 0.3080 | 0.3100 | 0.3000 |
| 7000 | 7650 | 8300 | J | 1J | 0.3010 | 0.3420 | 0.3060 | 0.3220 | 0.2920 | 0.3060 | 0.2870 | 0.3210 |
| | | | | 2J | 0.3060 | 0.3220 | 0.3080 | 0.3110 | 0.2950 | 0.2970 | 0.2920 | 0.3060 |
| | | | | 3J | 0.2950 | 0.2970 | 0.3080 | 0.3110 | 0.3100 | 0.3000 | 0.2980 | 0.2880 |
| 8300 | 9000 | 10000 | K | 1K | 0.2920 | 0.3060 | 0.2950 | 0.2970 | 0.2830 | 0.2840 | 0.2790 | 0.2910 |
| | | | | 2K | 0.2830 | 0.2840 | 0.2950 | 0.2970 | 0.2980 | 0.2880 | 0.2870 | 0.2760 |

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Print Code Guideline

L4 20 NW H W D A
 1 2 3 4 5 6 7

XXXXXXXXXXXXXXXXXX
 8

V0 -Y -2H XX XX XX
 9 10 11 12 13 14

Table.11

| 1 Type | 2 Power | 3 Color | 4 Vf | 5 Current | 6 CRI |
|-----------|-----------------|---|------------------------------------|---|--|
| L4 | 20 : 20W | NW : Cool White MW : Neutral White CL : Warm White | D : 14 V H : 28 V | W : 750 mA Y : 1500 mA | B : 80~90 C : 70~80 D : 60~70 |

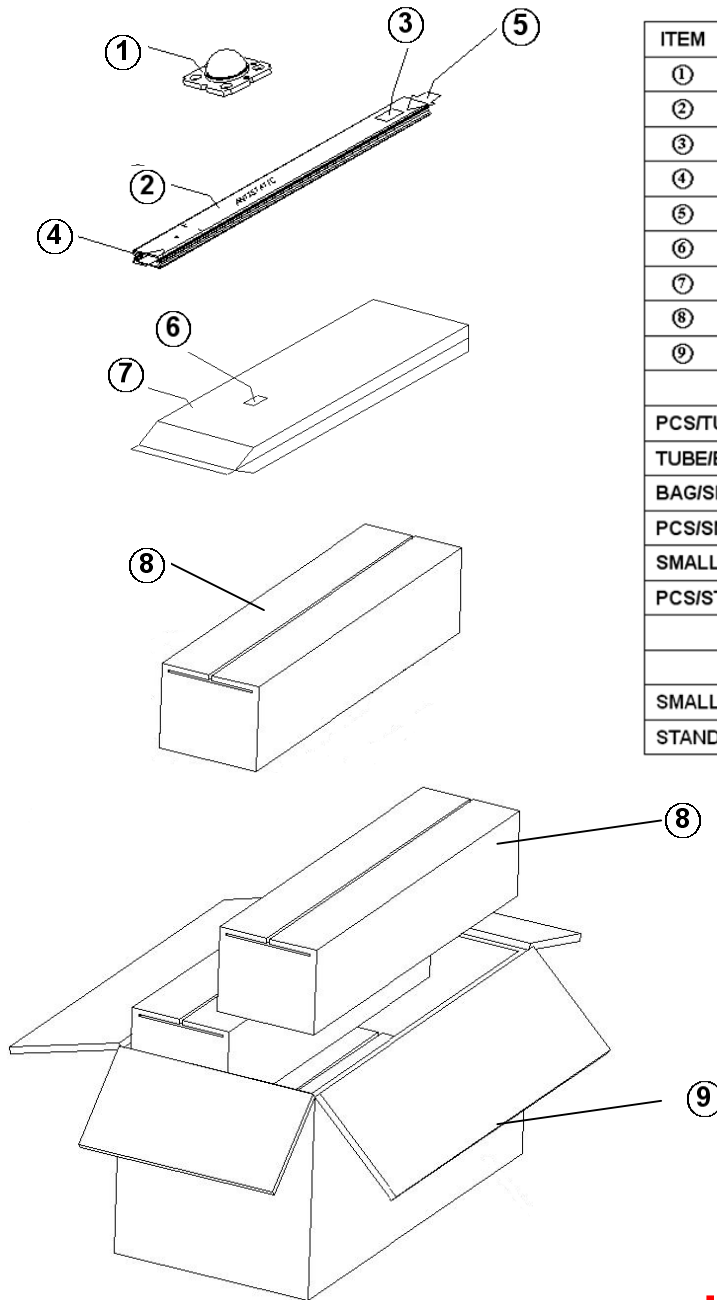
| 7 Customer Code | 8 Internal Code | 9 Bin Vf | 10 Luminous Flux | 11 Chromaticity |
|--------------------|--------------------|-------------------------------|----------------------------|----------------------------|
| | | V0 : Without Binned | See Bin Code Definition | See Bin Code Definition |

| 12 Year | 13 Month | 14 Week |
|------------------|---------------------|-----------------------------------|
| 09 : 2009 | 01 : January | 01 : 01 st Week |
| 10 : 2010 | 05 : May | 20 : 20 th Week |
| 11 : 2011 | 10 : October | 45 : 45 th Week |

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Standard Packaging



| ITEM | DESCRIPTION | |
|------------------------|------------------------|------------|
| ① | LED | |
| ② | PLASTIC TUBE | |
| ③ | ADHESIVE MAIN LABEL | |
| ④ | END-PLUG WHITE | |
| ⑤ | END-PLUG BLACK | |
| ⑥ | ADHESIVE MAIN LABEL | |
| ⑦ | MOISTURE BARRIER BAG | |
| ⑧ | SMALL BOX | |
| ⑨ | STANDARD BOX | |
| STACKING METHOD | | |
| PCS/TUBE | | 10 |
| TUBE/BAG | | 10 |
| BAG/SMALL BOX | | 2 |
| PCS/SMALL BOX | | 200 |
| SMALL BOX/STANDARD BOX | | 4 |
| PCS/STANDARD BOX | | 800 |
| SIZE AND WEIGHT | | |
| | SIZE(mm ³) | WEIGHT(kg) |
| SMALL BOX | 560x130x130 | 3.7±0.5 |
| STANDARD BOX | 580x280x280 | 15.5±0.5 |

LUSTRON DX4

Precaution for Use

Over-current Proof

1. Do not reverse current the LEDs we suggest current limit resistors for extra protection.
2. The maximum overshoot current should be limited to 130% of normal drive current.
3. The ripple of driving current should not exceed +/-10% of normal driving current.
4. The typical driving current for L320NWHWDA series is 750mA and 1500mA for L320NWDYDA series.
5. When driving L320NWHWDA and L320NWDYDA series, the clamp voltage must be set at 30V and 15V, respectively.

Storage

1. Do not open the Moisture Barrier Bag (MBB) before you are ready to install the LEDs.
2. Storage Condition (before opening the MBB) :
 - I Storage Temperature:-20~50°C.
 - I Relative Humidity: <60% RH.
 - I Please re-seal the MBB when storing longer than 3 weeks.
 - I The products should be used within half a year.
3. Storage Condition (after opening the MBB) :
 - I Storage Temperature:-20~50°C.
 - I Relative Humidity: <60% RH.
 - I The products should used or installed as soon as possible after opening the MBB. Otherwise, the LED product must be baked at 80+/-5°C, 24 hours before installation.

Installation

Do not touch the lighting surface area during installation.

Company Information

Founded in 2004, Lustrous Technology endeavors to bring in a new era of Solid-State Lighting (SSL). In order to promote innovative new designs and maintain superior quality we have located our R&D and production facilities in Taiwan. Our commitment to excellence has helped us earn quality awards and unique patents in many countries, such as Taiwan and US. Our finest LED lighting products are designed to provide the best in performance and reliability for your next LED applications. Besides high power LED products, our professional and experienced R&D team also provides excellent secondary optical services for customers to solve any lens problems. After years of accomplishment, we have successfully established long-term and trustful worthy business relationships with several most prestigious corporations, such as Delta Electronics, Inc. and Neng Tyi Co., Ltd. If your company is considering any Lustrous products, feel free to contact our sales personnel for a brief introduction or arrange a tour of our ISO 9000 facility in Taiwan.

**Lustrous Technology may make process and material changes affecting performance and characteristics of our products without further notice. These products supplied after changes will continue to meet published specifications, but may not be identical to products supplied as samples or under prior orders.



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