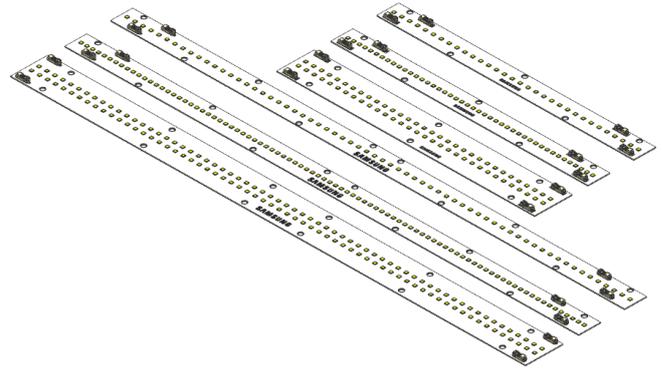


LED Module

H inFlux



Features & Benefits

- Excellent solution for highbay, lowbay and high mounted fixtures
- Very high efficacy delivery around 190lm/W @ 4000K, $t_p=55^{\circ}\text{C}$
- Additional LED protection effort
- Wide lumen flux coverage up to 40,000lm through module combination
- Easy thermal management by flip-chip MPL designed by Samsung

Applications

- Industrial lighting : warehouse, plant, parking lot etc.
- High ceiling indoor : building lobby etc



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1. Product Code Information

a-1) H inFlux_S

| | Item | Product Code |
|-----|--------------|----------------|
| S02 | 3000K / Ra80 | SL-B8V1N30LAWW |
| | 3500K / Ra80 | SL-B8U1N30LAWW |
| | 4000K / Ra80 | SL-B8T1N30LAWW |
| | 5000K / Ra80 | SL-B8R1N30LAWW |
| S03 | 3000K / Ra80 | SL-B8V1N60LAWW |
| | 3500K / Ra80 | SL-B8U1N60LAWW |
| | 4000K / Ra80 | SL-B8T1N60LAWW |
| | 5000K / Ra80 | SL-B8R1N60LAWW |
| S04 | 3000K / Ra80 | SL-B8V2N70LAWW |
| | 3500K / Ra80 | SL-B8U2N70LAWW |
| | 4000K / Ra80 | SL-B8T2N70LAWW |
| | 5000K / Ra80 | SL-B8R2N70LAWW |

a-2) H inFlux_L

| | Item | Product Code |
|-----|--------------|----------------|
| L04 | 3000K / Ra80 | SL-B8V2N80LAWW |
| | 3500K / Ra80 | SL-B8U2N80LAWW |
| | 4000K / Ra80 | SL-B8T2N80LAWW |
| | 5000K / Ra80 | SL-B8R2N80LAWW |
| L06 | 3000K / Ra80 | SL-B8V3N80LAWW |
| | 3500K / Ra80 | SL-B8U3N80LAWW |
| | 4000K / Ra80 | SL-B8T3N80LAWW |
| | 5000K / Ra80 | SL-B8R3N80LAWW |
| L09 | 3000K / Ra80 | SL-B8V4N90LAWW |
| | 3500K / Ra80 | SL-B8U4N90LAWW |
| | 4000K / Ra80 | SL-B8T4N90LAWW |
| | 5000K / Ra80 | SL-B8R4N90LAWW |

2. Characteristics

(S02 : If 1,000mA , S03 : If 1,430mA , S04 : If 1,000mA tp 55°C)

(L04 : If 1,000mA , L06 : If 1,430mA , L09 : If 1,000mA tp 55°C)

a) Basic Information

| Item | Unit | Rating | Remark |
|---------------------------------------------------|------|-----------------|--------------|
| Rated Lifetime | Hour | >50,000 | L70B50 |
| Ingress Protection (IP) | - | no rating | |
| Ambient / Operating Temperature (t _a) | °C | -40 ~ +50 | |
| Storage Temperature | °C | -40 ~ +85 | |
| Working voltage for insulation | V | 50 | |
| Max pass-through current | A | 3 | |
| ESD | V | 4,000 (Contact) | IEC61000-4-2 |
| | | 8,000 (Air) | |

Notes

※ tp: temperature at which performance is specified measured at "Tc point".

b) Electro-Optical Characteristics

b-1) H inFlux_S02

| Item | Unit | Rating | | | Remark | |
|----------------------------|------|--------|-------|-------|--------|-----------------------------|
| | | min | typ | max | | |
| Luminous Flux | lm | 3000K | 1,780 | 1,980 | 2,180 | If = 1,000 mA tp = 55 °C |
| | | 3500K | 1,820 | 2,030 | 2,240 | |
| | | 4000K | 1,920 | 2,140 | 2,360 | |
| | | 5000K | 1,980 | 2,200 | 2,420 | |
| Luminous Efficacy | lm/W | 3000K | 160 | 178 | 197 | |
| | | 3500K | 163 | 183 | 202 | |
| | | 4000K | 172 | 193 | 213 | |
| | | 5000K | 178 | 198 | 218 | |
| Operating Voltage | V | 10.0 | 11.1 | 13.0 | | |
| Power Consumption | W | 10.0 | 11.1 | 13.0 | | |
| Color Rendering Index (Ra) | - | 80 | | | | |
| Operating Current | mA | - | 1,000 | 1,600 | | |

b-2) H inFlux_S03

| Item | Unit | Rating | | | Remark | |
|----------------------------|------|--------|-------|-------|--------|-----------------------------|
| | | min | typ | max | | |
| Luminous Flux | lm | 3000K | 2,530 | 2,820 | 3,110 | If = 1,430 mA tp = 55 °C |
| | | 3500K | 2,600 | 2,890 | 3,180 | |
| | | 4000K | 2,750 | 3,060 | 3,370 | |
| | | 5000K | 2,825 | 3,140 | 3,455 | |
| Luminous Efficacy | lm/W | 3000K | 158 | 176 | 195 | |
| | | 3500K | 162 | 181 | 199 | |
| | | 4000K | 171 | 191 | 211 | |
| | | 5000K | 176 | 196 | 216 | |
| Operating Voltage | V | 10.0 | 11.2 | 13.0 | | |
| Power Consumption | W | 14.0 | 16.0 | 19.0 | | |
| Color Rendering Index (Ra) | - | 80 | | | | |
| Operating Current | mA | - | 1,430 | 2,200 | | |

Notes

- ※ Operating current tolerance may be $\pm 5\%$.
- ※ tp: temperature at which performance is specified measured at "Tc point".
- ※ Samsung maintains a measurement tolerance of Luminous flux $\pm 7\%$, Ra ± 3.0 , Voltage $\pm 5\%$.

b-3) H inFlux_S04

| Item | Unit | Rating | | | Remark | |
|----------------------------|------|--------|-------|-------|--------|-----------------------------|
| | | min | typ | max | | |
| Luminous Flux | lm | 3000K | 3,560 | 3,960 | 4,360 | If = 1,000 mA tp = 55 °C |
| | | 3500K | 3,650 | 4,060 | 4,470 | |
| | | 4000K | 3,850 | 4,280 | 4,710 | |
| | | 5000K | 3,960 | 4,400 | 4,840 | |
| Luminous Efficacy | lm/W | 3000K | 159 | 178 | 196 | |
| | | 3500K | 163 | 182 | 201 | |
| | | 4000K | 172 | 192 | 212 | |
| | | 5000K | 178 | 197 | 217 | |
| Operating Voltage | V | 20.0 | 22.3 | 25.0 | | |
| Power Consumption | W | 20.0 | 22.3 | 25.0 | | |
| Color Rendering Index (Ra) | - | 80 | | | | |
| Operating Current | mA | - | 1,000 | 1,600 | | |

b-4) H inFlux_L04

| Item | Unit | Rating | | | Remark | |
|----------------------------|------|--------|-------|-------|--------|-----------------------------|
| | | min | typ | max | | |
| Luminous Flux | lm | 3000K | 3,560 | 3,960 | 4,360 | If = 1,000 mA tp = 55 °C |
| | | 3500K | 3,650 | 4,060 | 4,470 | |
| | | 4000K | 3,850 | 4,280 | 4,710 | |
| | | 5000K | 3,960 | 4,400 | 4,840 | |
| Luminous Efficacy | lm/W | 3000K | 159 | 178 | 196 | |
| | | 3500K | 163 | 182 | 201 | |
| | | 4000K | 172 | 192 | 212 | |
| | | 5000K | 178 | 197 | 217 | |
| Operating Voltage | V | 20.0 | 22.3 | 25.0 | | |
| Power Consumption | W | 20.0 | 22.3 | 25.0 | | |
| Color Rendering Index (Ra) | - | 80 | | | | |
| Operating Current | mA | - | 1,000 | 1,600 | | |

Notes

- ※ Operating current tolerance may be $\pm 5\%$.
- ※ tp: temperature at which performance is specified measured at "Tc point".
- ※ Samsung maintains a measurement tolerance of Luminous flux $\pm 7\%$, Ra ± 3.0 , Voltage $\pm 5\%$.

b-5) H inFlux_L06

| Item | Unit | Rating | | | Remark | |
|----------------------------|------|--------|-------|-------|--------|-----------------------------|
| | | min | typ | max | | |
| Luminous Flux | lm | 3000K | 5,060 | 5,630 | 6,200 | If = 1,430 mA tp = 55 °C |
| | | 3500K | 5,220 | 5,800 | 6,380 | |
| | | 4000K | 5,490 | 6,110 | 6,730 | |
| | | 5000K | 5,670 | 6,300 | 6,930 | |
| Luminous Efficacy | lm/W | 3000K | 158 | 176 | 194 | |
| | | 3500K | 163 | 181 | 200 | |
| | | 4000K | 171 | 191 | 211 | |
| | | 5000K | 177 | 197 | 216 | |
| Operating Voltage | V | 20.0 | 22.4 | 25.0 | | |
| Power Consumption | W | 28.0 | 32.0 | 36.0 | | |
| Color Rendering Index (Ra) | - | 80 | | | | |
| Operating Current | mA | - | 1,430 | 2,200 | | |

b-6) H inFlux_L09

| Item | Unit | Rating | | | Remark | |
|----------------------------|------|--------|-------|-------|--------|-----------------------------|
| | | min | typ | max | | |
| Luminous Flux | lm | 3000K | 7,110 | 7,910 | 8,710 | If = 1,000 mA tp = 55 °C |
| | | 3500K | 7,310 | 8,130 | 8,950 | |
| | | 4000K | 7,710 | 8,570 | 9,430 | |
| | | 5000K | 7,875 | 8,750 | 9,625 | |
| Luminous Efficacy | lm/W | 3000K | 159 | 177 | 196 | |
| | | 3500K | 163 | 182 | 201 | |
| | | 4000K | 172 | 192 | 212 | |
| | | 5000K | 177 | 196 | 216 | |
| Operating Voltage | V | 41.0 | 44.6 | 49.0 | | |
| Power Consumption | W | 41.0 | 44.6 | 49.0 | | |
| Color Rendering Index (Ra) | - | 80 | | | | |
| Operating Current | mA | - | 1,000 | 1,600 | | |

Notes

- ※ Operating current tolerance may be $\pm 5\%$.
- ※ tp: temperature at which performance is specified measured at "Tc point".
- ※ Samsung maintains a measurement tolerance of Luminous flux $\pm 7\%$, Ra ± 3.0 , Voltage $\pm 5\%$.

c) Color coordinate

| Model | Nom. CCT (K) | CIE 1931 Chromaticity Coordinates | | | | Remark | |
|-------|--------------|-----------------------------------|--------|--------|--------|--------|-----------------------------|
| S02 | 3000 | CIE x | 0.4323 | 0.4252 | 0.4378 | 0.4453 | If = 1,000 mA tp = 25 °C |
| | | CIE y | 0.4064 | 0.3911 | 0.3956 | 0.4111 | |
| | | Center | CIE x | 0.4352 | CIE y | 0.4011 | |
| | 3500 | CIE x | 0.4050 | 0.3994 | 0.4128 | 0.4189 | |
| | | CIE y | 0.3942 | 0.3791 | 0.3856 | 0.4010 | |
| | | Center | CIE x | 0.4090 | CIE y | 0.3900 | |
| | 4000 | CIE x | 0.3788 | 0.3750 | 0.3872 | 0.3916 | |
| | | CIE y | 0.3802 | 0.3656 | 0.3730 | 0.3880 | |
| | | Center | CIE x | 0.3832 | CIE y | 0.3767 | |
| | 5000 | CIE x | 0.3394 | 0.3386 | 0.3484 | 0.3496 | |
| | | CIE y | 0.3525 | 0.3407 | 0.3485 | 0.3607 | |
| | | Center | CIE x | 0.3440 | CIE y | 0.3506 | |
| S03 | 3000 | CIE x | 0.4323 | 0.4252 | 0.4378 | 0.4454 | If = 1,430 mA tp = 25 °C |
| | | CIE y | 0.4064 | 0.3912 | 0.3956 | 0.4112 | |
| | | Center | CIE x | 0.4352 | CIE y | 0.4011 | |
| | 3500 | CIE x | 0.4054 | 0.3998 | 0.4131 | 0.4192 | |
| | | CIE y | 0.3946 | 0.3795 | 0.3859 | 0.4013 | |
| | | Center | CIE x | 0.4094 | CIE y | 0.3903 | |
| | 4000 | CIE x | 0.3789 | 0.3751 | 0.3872 | 0.3917 | |
| | | CIE y | 0.3803 | 0.3656 | 0.3731 | 0.3881 | |
| | | Center | CIE x | 0.3832 | CIE y | 0.3768 | |
| | 5000 | CIE x | 0.3395 | 0.3386 | 0.3485 | 0.3497 | |
| | | CIE y | 0.3528 | 0.3410 | 0.3488 | 0.3610 | |
| | | Center | CIE x | 0.3441 | CIE y | 0.3509 | |

Notes

Samsung maintains a measurement tolerance of CIE_x / CIE_y \pm 0.005

| Model | Nom. CCT (K) | CIE 1931 Chromaticity Coordinates | | | | Remark | | | |
|-------|--------------|-----------------------------------|--------|--------|--------|--------|-----------------------------|--------|-----------------------------|
| S04 | 3000 | CIE x | 0.4321 | 0.4250 | 0.4376 | 0.4452 | If = 1,000 mA tp = 25 °C | | |
| | | CIE y | 0.4063 | 0.3911 | 0.3955 | 0.4111 | | | |
| | | Center | CIE x | 0.4350 | CIE y | 0.4010 | | | |
| | 3500 | CIE x | 0.4051 | 0.3995 | 0.4128 | 0.4189 | | | |
| | | CIE y | 0.3944 | 0.3793 | 0.3857 | 0.4011 | | | |
| | | Center | CIE x | 0.4091 | CIE y | 0.3901 | | | |
| | 4000 | CIE x | 0.3793 | 0.3755 | 0.3877 | 0.3921 | | | |
| | | CIE y | 0.3812 | 0.3666 | 0.3740 | 0.3890 | | | |
| | | Center | CIE x | 0.3837 | CIE y | 0.3777 | | | |
| | 5000 | CIE x | 0.3397 | 0.3388 | 0.3487 | 0.3499 | | | |
| | | CIE y | 0.3530 | 0.3412 | 0.3490 | 0.3613 | | | |
| | | Center | CIE x | 0.3443 | CIE y | 0.3511 | | | |
| | L04 | 3000 | CIE x | 0.4323 | 0.4252 | 0.4378 | | 0.4454 | If = 1,000 mA tp = 25 °C |
| | | | CIE y | 0.4064 | 0.3911 | 0.3956 | | 0.4111 | |
| | | | Center | CIE x | 0.4352 | CIE y | | 0.4010 | |
| 3500 | | CIE x | 0.4049 | 0.3993 | 0.4126 | 0.4187 | | | |
| | | CIE y | 0.3942 | 0.3791 | 0.3856 | 0.4010 | | | |
| | | Center | CIE x | 0.4089 | CIE y | 0.3900 | | | |
| 4000 | | CIE x | 0.3790 | 0.3752 | 0.3874 | 0.3918 | | | |
| | | CIE y | 0.3807 | 0.3660 | 0.3735 | 0.3885 | | | |
| | | Center | CIE x | 0.3834 | CIE y | 0.3772 | | | |
| 5000 | | CIE x | 0.3414 | 0.3406 | 0.3504 | 0.3516 | | | |
| | | CIE y | 0.3548 | 0.3430 | 0.3508 | 0.3631 | | | |
| | | Center | CIE x | 0.3460 | CIE y | 0.3529 | | | |

Notes

Samsung maintains a measurement tolerance of CIE_x / CIE_y \pm 0.005

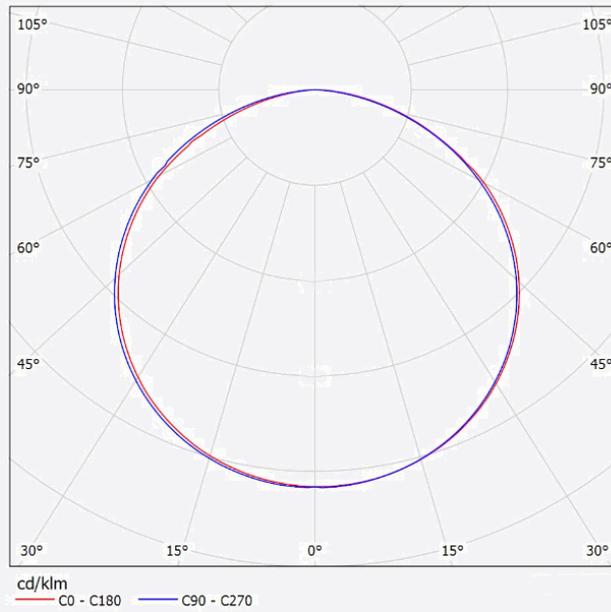
| Model | Nom. CCT (K) | CIE 1931 Chromaticity Coordinates | | | | Remark | | | |
|-------|--------------|-----------------------------------|--------|--------|--------|--------|-----------------------------|--------|-----------------------------|
| L06 | 3000 | CIE x | 0.4321 | 0.4250 | 0.4376 | 0.4451 | If = 1,430 mA tp = 25 °C | | |
| | | CIE y | 0.4063 | 0.3910 | 0.3955 | 0.4110 | | | |
| | | Center | CIE x | 0.4350 | CIE y | 0.4009 | | | |
| | 3500 | CIE x | 0.4052 | 0.3996 | 0.4130 | 0.4191 | | | |
| | | CIE y | 0.3942 | 0.3791 | 0.3856 | 0.4010 | | | |
| | | Center | CIE x | 0.4092 | CIE y | 0.3900 | | | |
| | 4000 | CIE x | 0.3791 | 0.3753 | 0.3874 | 0.3919 | | | |
| | | CIE y | 0.3806 | 0.3659 | 0.3734 | 0.3884 | | | |
| | | Center | CIE x | 0.3834 | CIE y | 0.3771 | | | |
| | 5000 | CIE x | 0.3399 | 0.3391 | 0.3489 | 0.3501 | | | |
| | | CIE y | 0.3530 | 0.3412 | 0.3490 | 0.3613 | | | |
| | | Center | CIE x | 0.3445 | CIE y | 0.3511 | | | |
| | L09 | 3000 | CIE x | 0.4321 | 0.4250 | 0.4375 | | 0.4451 | If = 1,000 mA tp = 25 °C |
| | | | CIE y | 0.4060 | 0.3907 | 0.3952 | | 0.4107 | |
| | | | Center | CIE x | 0.4349 | CIE y | | 0.4007 | |
| 3500 | | CIE x | 0.4051 | 0.3995 | 0.4129 | 0.4189 | | | |
| | | CIE y | 0.3942 | 0.3791 | 0.3855 | 0.4009 | | | |
| | | Center | CIE x | 0.4091 | CIE y | 0.3899 | | | |
| 4000 | | CIE x | 0.3793 | 0.3755 | 0.3876 | 0.3920 | | | |
| | | CIE y | 0.3808 | 0.3661 | 0.3736 | 0.3886 | | | |
| | | Center | CIE x | 0.3836 | CIE y | 0.3773 | | | |
| 5000 | | CIE x | 0.3397 | 0.3389 | 0.3487 | 0.3499 | | | |
| | | CIE y | 0.3530 | 0.3412 | 0.3490 | 0.3613 | | | |
| | | Center | CIE x | 0.3443 | CIE y | 0.3511 | | | |

Notes

Samsung maintains a measurement tolerance of CIE_x / CIE_y \pm 0.005

d) Light Distribution (All)

| Item | Unit | Nominal | Tolerance | Remark |
|-------------------|-----------|---------|-----------|--------|
| Beam Angle (FWHM) | °(degree) | 118 | ± 5 | |



e) Temperature Characteristics

| Item | Unit | Nominal* | Life** | Max*** (tc) |
|-----------------------|------|----------|--------|-------------|
| Temperature Case (Tc) | °C | 55 | 80 | 90 |

Notes:

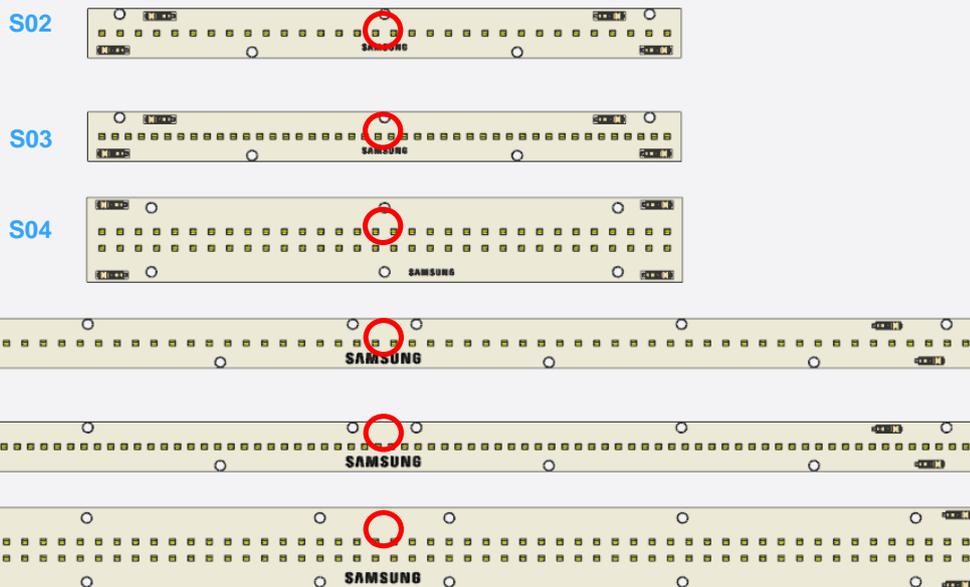
- * Temperature used to specify performance of the module (tp).
- ** Rated maximum performance temperature at which lifetime is specified (??).
- *** Rated maximum temperature, highest permissible temperature to avoid safety risk (tc).

All temperatures are measured at the designated "Tc point" as indicated on the module.

Please use heat-sink(or heat dissipation solution) with proper thermal capacity(operating wattage).

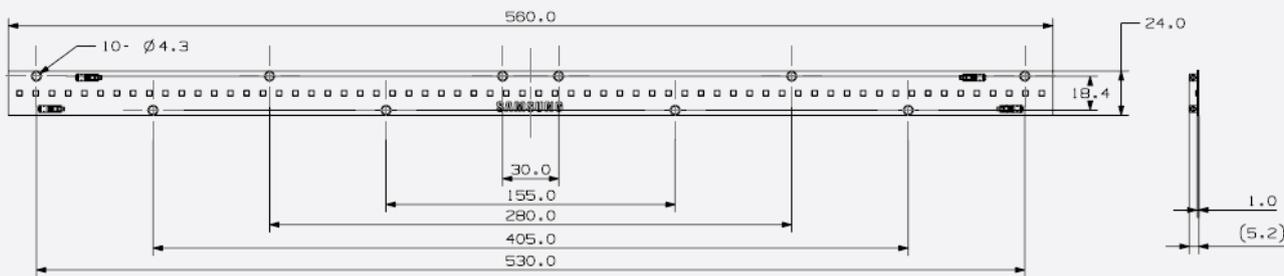
f) Thermal measurement

Performance temperatures are measured on "Tc point" as indicated on the module.

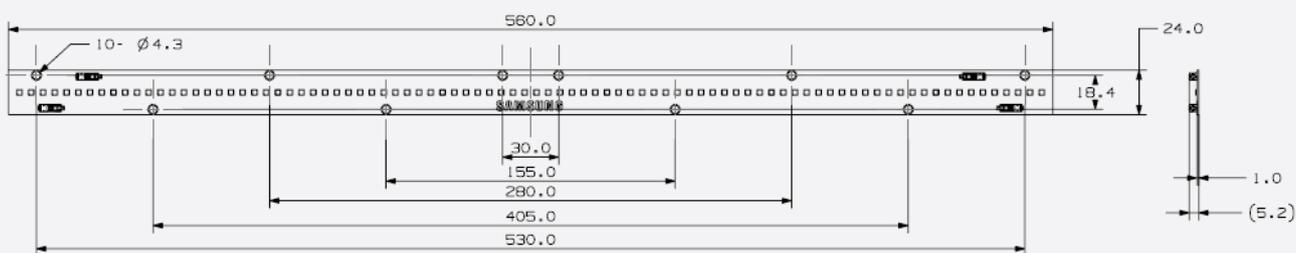


a-2) H inFlux L

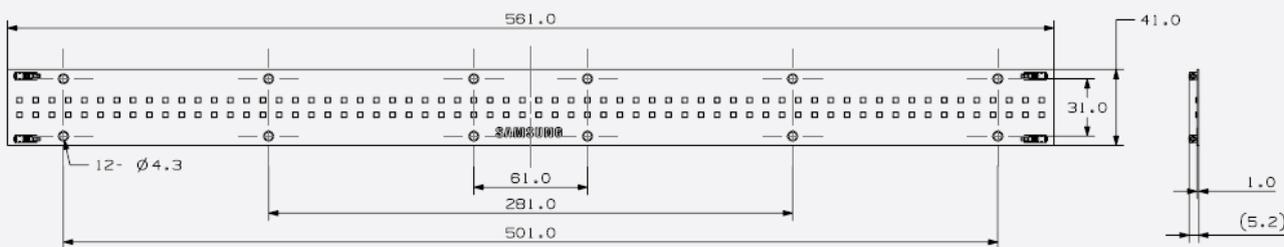
L04



L06



L09



b) Dimension

| | Item | Unit | Dimension | Tolerance |
|-----------------|--------------------|------|-----------|-----------|
| Module Diameter | H influx_S02 / S03 | mm | 280 X 24 | ±0.3 |
| | H influx_S04 | | 281 X 41 | |
| | H influx_L04 / L06 | | 560 X 24 | |
| | H influx_L09 | | 561 X 41 | |
| Module Height | All | | Ref. 5.2 | - |
| Screw Hole | All | | 4.3 | ±0.2 |
| Module Weight | S02 | g | 22.5 | ±4.0 |
| | S03 | | 22.5 | |
| | S04 | | 38.2 | |
| | L04 | | 44.2 | |
| | L06 | | 44.4 | |
| | L09 | | 75.5 | |

c) Structure

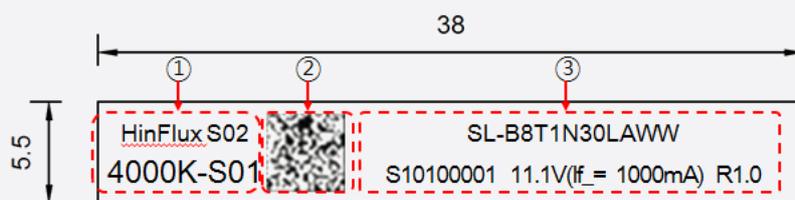
| Item | Specification |
|-----------|---------------|
| LED | LM301B |
| CONNECTOR | 1pin-pokein |
| PCB | MCPCB 1oz |

4. Certification and Declaration

| Item | Compliant to | Remark |
|----------------------|-------------------------|--------------------------------------------------------------------------------------------------------|
| Test & Certification | UL / cUL | E344519 |
| | CE | Declaration of Conformity |
| | Photo-biological Safety | RG1 |
| | Type Classification | Built in module  |
| Declaration | RoHS | Hazardous Substance & Material |
| | REACH | Hazardous Substance & Material |

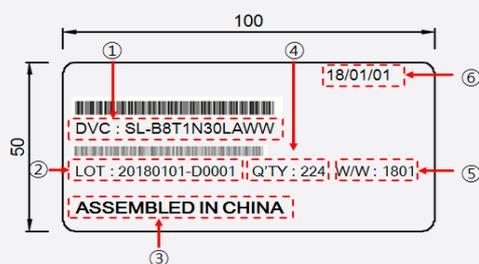
5. Label Structure

a) Module Label



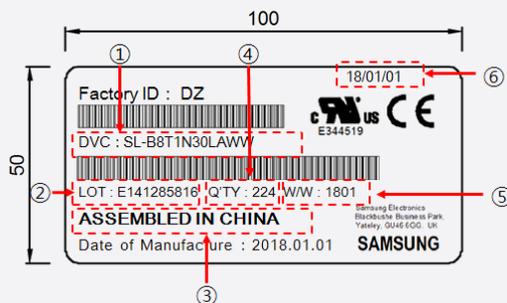
| Number | Item | Remark |
|--------|--------------------------|--------|
| ① | Model Information | - |
| ② | 2D Barcode | - |
| ③ | Product code Information | - |

b) Tray Label



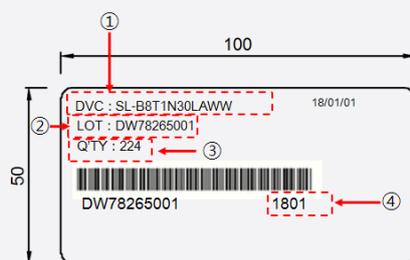
| Number | Item | Remark |
|--------|------------------------------------|--------------------|
| ① | Model Number (Product Code) | SL-B8T1N30LAWW |
| ② | Tray Lot No. | 20180101-D0001 |
| ③ | Country of Origin | ASSEMBLED IN CHINA |
| ④ | Packing Quantity | 224 |
| ⑤ | Manufacture Date (year & week) | 1801 |
| ⑥ | Manufacture Date (year/month/date) | 18/01/01 |

c) Box Label



| Number | Item | Remark |
|--------|--------------------------------|--------------------|
| ① | Model Number (Product Code) | SL-B8T1N30LAWW |
| ② | Lot No. | E141285816 |
| ③ | Country of Origin | ASSEMBLED IN CHINA |
| ④ | Packing Quantity | 224 |
| ⑤ | Product Date (year & week) | 1801 |
| ⑥ | Product Date (year/month/date) | 18/01/01 |

d) Pallet Label



| Number | Item | Remark |
|--------|--------------------------|----------------|
| ① | Product Code | SL-B8T2N80L5US |
| ② | Pallet Lot No. | DW7B26501 |
| ③ | Packing Quantity | 1920 |
| ④ | Manufacture date (yy/ww) | 1801 |

6. Packing Structure

a) Packing quantity

| Product | Packing | Quantity (ea) | Weight (kg) | Remark |
|------------------------------|-----------|---------------|-------------|-----------------------------------------------|
| H inFlux_S02 H inFlux_S03 | Tray | 32 | 8.9 | Weight (includes Modules, Trays and a Box) |
| | Outer Box | 256 | | |
| | Pallet | 6,144 | | |
| H inFlux_S04 | Tray | 32 | 8.9 | Weight (includes Modules, Trays and a Box) |
| | Outer Box | 160 | | |
| | Pallet | 3,840 | | |
| H inFlux_L04 H inFlux_L06 | Tray | 30 | 12.3 | Weight (includes Modules, Trays and a Box) |
| | Outer Box | 210 | | |
| | Pallet | 3,360 | | |
| H inFlux_L09 | Tray | 30 | 12.3 | Weight (includes Modules, Trays and a Box) |
| | Outer Box | 120 | | |
| | Pallet | 1,920 | | |

7. Precautions in Handling & Use

- 1) This LED Module should not be used in any type of fluid such as water, oil, organic solvent, etc. When washing is required, IPA is recommended to use. When using other solvents it should be confirmed beforehand whether the solvents may react with the Module material. The banned freon solvents should not be used. Do not clean using ultrasonic cleaner.
- 2) The LEDs are sensitive to the static electricity and surge. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED Modules. If voltage exceeding the absolute maximum rating is applied to LEDs, it may cause damage or even destruction to LED devices. Damaged LEDs may show some unusual characteristics such as increase in leak current, lowered turn-on voltage, or abnormal lighting of LEDs at low current.
- 3) VOCs (Volatile Organic Compounds) can be generated from adhesives, flux, hardener or organic additives used in luminaires (fixtures). Transparent LED silicone encapsulant is permeable to those chemicals and they may lead a discoloration of encapsulant when they exposed to heat or light. This phenomenon can cause a significant loss of light emitted (output) from the luminaires (fixtures). In order to prevent these problems, we recommend users to know the physical properties of the materials used in luminaires, and they must be selected carefully.
- 4) Risk of sulfurization (or tarnishing)
The LED uses a silver-plated lead frame and its surface color may change to black (or dark colored) when it is exposed to sulfur (S), chlorine (Cl) or other halogen compound. Sulfurization of lead frame may cause intensity degradation, change of chromaticity coordinates and, in extreme cases, open circuit. It requires caution. Due to possible sulfurization of lead frame, the LED Modules should not be used and stored together with oxidizing substances made of materials such as rubber, plain paper, lead solder cream, etc.
- 5) The resin area is very sensitive, please do not handle, press, touch or rub it.
- 6) Do not drop the Module or give shocks.
- 7) Do not store the Module in a dusty place or humid location.
- 8) Do not disassemble the Module.
- 9) Do not directly look into the lighted LED with naked eyes for a long period of time.
- 10) Please consider the creepage and clearance distance at the end product.

Legal and additional information.

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Samsung inspires the world and shapes the future with transformative ideas and technologies. The company is redefining the worlds of TVs, smartphones, wearable devices, tablets, digital appliances, network systems, and semiconductor and LED solutions. For the latest news, please visit the Samsung Newsroom at news.samsung.com

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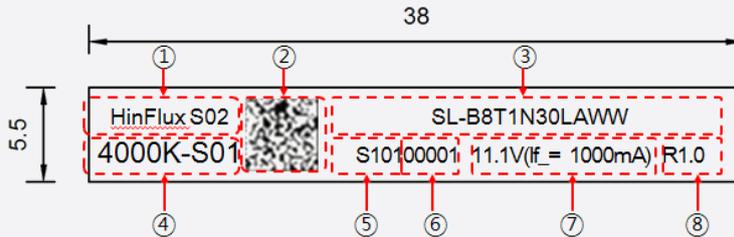
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[Appendix]

1. Label Information

a-1) Information of Printed Label

Label Image



| No | Item | Remark |
|----|-----------------------------------------|----------------------|
| 1 | Model Name | HinFlux S02 |
| 2 | 2D Barcode | - |
| 3 | Product code | SL-B8T1N30LAWW |
| 4 | CCT - LEDmaker / Bin rank | 4000K-S01 |
| 5 | SMT date | S101 (2018-01-01) |
| 6 | Serial No. | 00001 |
| 7 | Typical Voltage (Typical Input current) | 11.1 V (If = 1000mA) |
| 8 | Product Revision | R1.0 |

a-2) 2D Barcode Information

| QR code | No | Item | Remark |
|------------------------------------|----|--------------|----------------|
| SL-B8T1N30LAWW_S1011000014000K-S01 | 1 | Product code | SL-B8T1N30LAWW |
| | 2 | Space | - |
| | 3 | SMT date | S101 |
| | 4 | SMT line No. | 1 |
| | 5 | Serial No | 00001 |
| | 6 | CCT | 4000K |
| | 7 | LED Maker | -S |
| | 8 | Bin Group No | 01 |

a-3) Tray Label Barcode Information

| Barcode | No | Item | Remark |
|----------------|----|--------------------|----------------|
| SL-B8T1N30LAWW | 1 | Product code (DVC) | SL-B8T1N30LAWW |
| 20180101-D0001 | 1 | Tray Lot No. | 20180101-D0001 |

a-4) Outbox Label Barcode Information

| Barcode | No | Item | Remark |
|----------------|----|--------------------|----------------|
| SL-B8T1N30LAWW | 1 | Product code (DVC) | SL-B8T1N30LAWW |
| E141285816 | 1 | Outbox Lot No. | E141285816 |

a-5) Pallet Label Barcode Information

| Barcode | No | Item | Remark |
|------------|----|----------------|------------|
| DW7B265001 | 1 | Pallet Lot No. | DW7B265001 |

2. Applicable Wire Information

a) Applicable wire

| Wire Range AWG No. | Number of Conductors/ Diameter of a conductors (No./mm) | Insulation Diameter (mm) | Conductor Type |
|--------------------|---------------------------------------------------------------|-----------------------------|----------------|
| 24 | 1 / 0.51 (0.2mm ²) | 1.35 | Solid |
| 22 | 1 / 0.64 (0.3mm ²) | 1.48 | |
| 20 | 1 / 0.81 (0.5mm ²) | 1.65 | |
| 18 | 1 / 1.02 (0.8mm ²) | 1.86 | |
| 22 | 17 / 0.76 (Reference) After soldering : Φ 0.9mm Max | 1.6 | Strand |
| 20 | 21 / 0.95 (Reference) After soldering : Φ 1.1mm Max | 1.78 | |
| 18 | 23 / 1.1 (Reference) After soldering : Φ 1.25mm Max | 2.21 | |

Notes

- ※ Outside insulation diameter Φ2.1mm Max
- ※ Regarding strand conductor wire, strictly recommend that Pre bond wire type which is dipping into soldering after twisting

b) Wire Strip length

