

1. Structure

This product is LED Lighting which consists of following units.

- Alumina frame white GaN LED is used on.
- External AC/DC power unit.

2. Application LED Lighting based on Electrical Appliances and Material Safety Act

3. Absolute maximum ratings (Ta=25°C)

| Number | Description | Symbol | Specification | Unit | Remarks |
|--------|----------------|-----------------|---------------|------|-----------------------------|
| 1 | Input Voltage | V _{in} | 90 ~ 305 | VAC | |
| 2 | Operating temp | Topr | -40 ~ +40 | °C | No condensation under 80%RH |
| 3 | Storage temp | Tstg | -40 ~ +80 | °C | No condensation under 80%RH |

4. Characteristic (Ta=25°C)

| Number | Description | | Specification | | | Unit | Remarks |
|--------|------------------------|------------|---------------|-------|------|------|-------------------------|
| | | | MIN | TYP | MAX | | |
| 1 | Power consumption | AC100V | 85 | 95 | 112 | W | |
| | | AC200V | | | | | |
| 2 | Power supply frequency | | 50／60 common | | | Hz | |
| 3 | Power efficiency | AC100V | 0.9 | 0.99 | — | — | |
| | | AC200V | 0.9 | 0.98 | — | | |
| 4 | Input current | AC100V | 0.85 | 0.94 | 1.17 | A | |
| | | AC200V | 0.42 | 0.48 | 0.59 | | |
| 5 | Efficiency | AC100V | — | 92.5 | — | % | |
| | | AC200V | — | 94.0 | — | | |
| 6 | Light color | | Neutral | | | — | |
| 7 | Color temperature | | 4600 | 5000 | 5500 | K | See detail of next page |
| 8 | Illumination(※2) | | 3600 | 4100 | — | Lx | See detail of next page |
| 9 | Ra | | — | 70 | — | — | |
| 10 | Total luminous flux | | — | 11000 | — | Lm | |
| 11 | Weight | Body | — | 2.0 | — | kg | Exclude arm |
| | | Power unit | — | 1.0 | — | | |
| 11 | IP STD | Body | IP56 | | | — | |
| | | Power unit | IP67 | | | | |

※2 When ambient air temperature is 0 °C or less, although it may be less from the illumination of a stable state at the time of a lighting start, it becomes the range of a stable state in after-lighting about 5 minutes.

DESIGN
CHECK
APPROVAL

DATE:2013/03/28

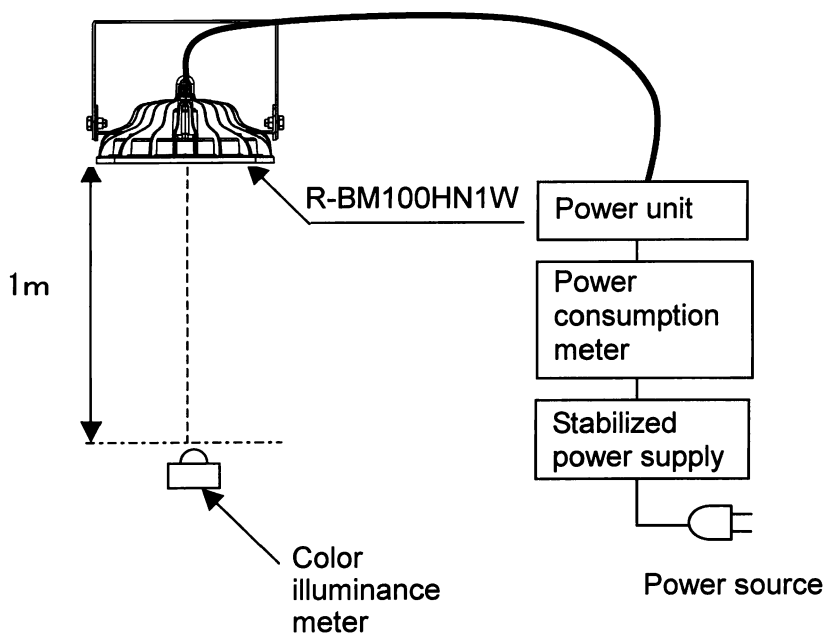
SPECIFICATION No. S L T G 0 6 6 8 E

REV. A

ROHM Co.,Ltd.

Condition of measuring illumination

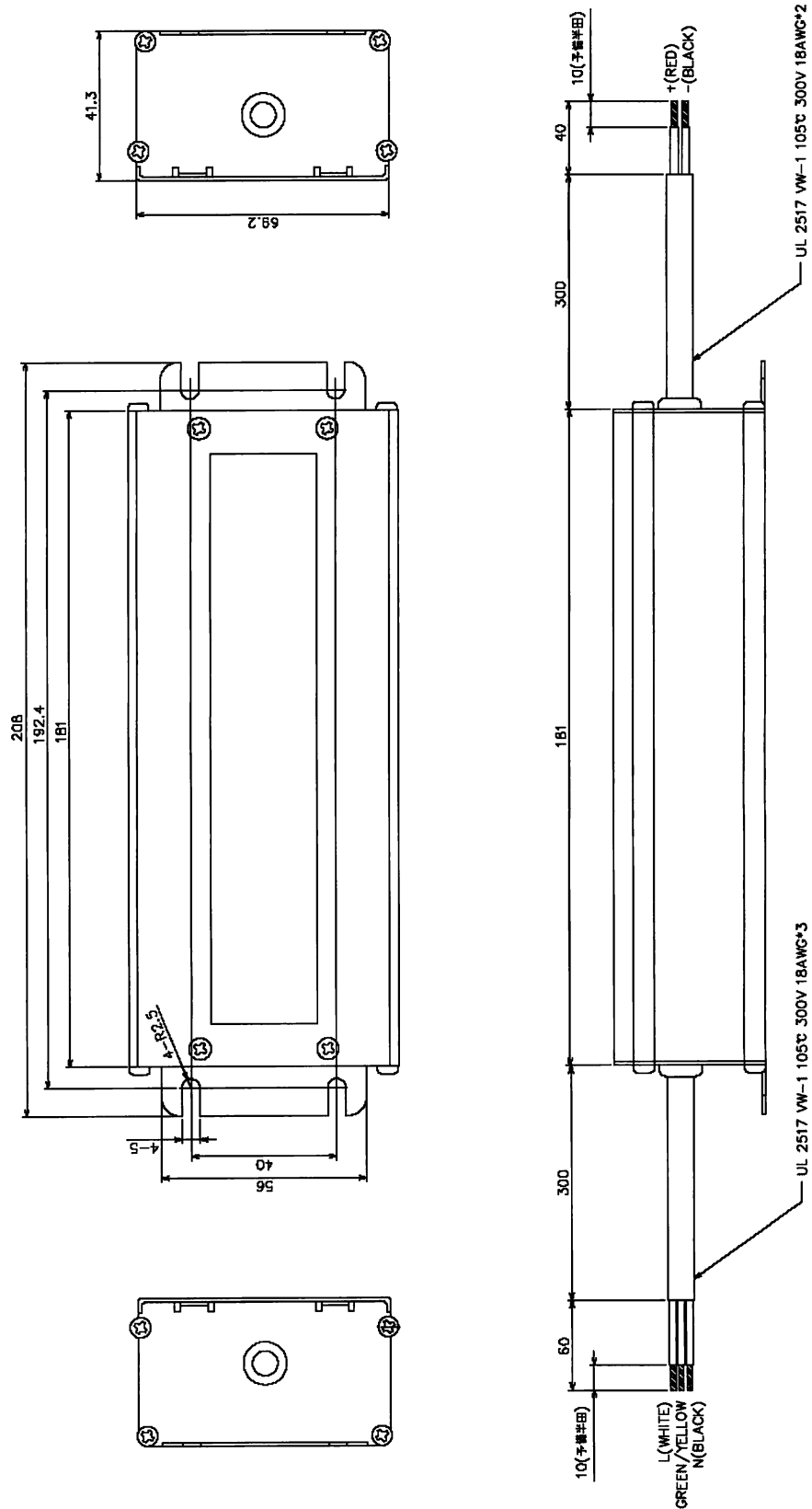
- ※ Input Voltage AC 200V 60Hz
- ※ Illumination measurement method : Measured 1m throw in dark room (Ta=25°C)



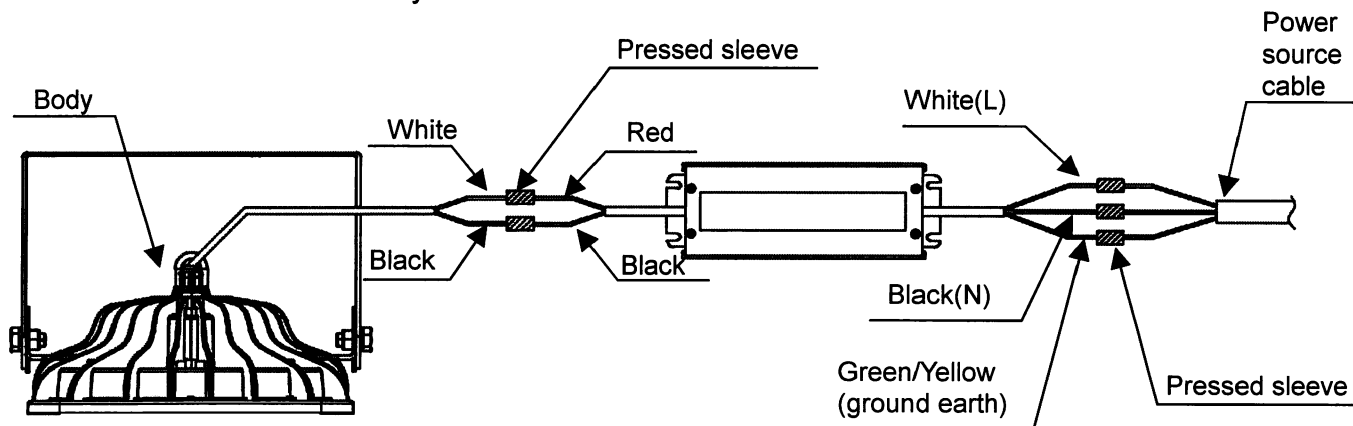
Measurement Equipment
 Stabilized Power Supply
 KIKUSUI AC Power Supply
 PCR500M
 Color illuminance meter
 YOKOGAWA illuminance meter
 520-06-C
 Power consumption meter
 HIOKI Power HiTESTER 3333

*Performance and accuracy of the measurement equipments are to be equal to or better than above mentioned.

5 - 2 .Power unit



5 - 3 .Connection of Body and Power unit

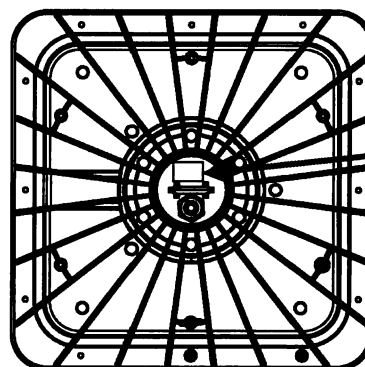


Note: Connect body and power unit as follows.
 (White wire-red wire, Black wire-black wire)

6 . Stamp

The product label put on body is as follows.

R-BM100HN1W
 1210K001AP-001



Body back

【Example of lot number display】

1 2 1 0 K 0 0 1 A P - 0 0 1
 ① ② ③ ④ ⑤ ⑥ ⑦

- ① Produced year AD. The two lower digit
- ② Weekly number (01-53)
- ③ Day of the week (KLMNP)
- ④ Lot number (001-999)
- ⑤ Symbol of mass production
- ⑥ Symbol of factory
- ⑦ Number of Part (001-999)

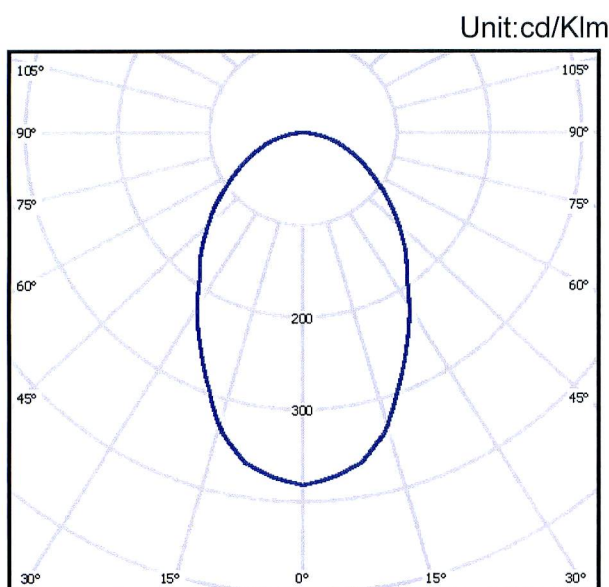
7. Warning configuration

- Do not replace internal device including LED chip.
- Do not use where temperature is so high.
- Turn off the power supply when installing.
If you don't do so. It may cause electric shock or a fire.
It may also cause a breakdown of lamp or power unit.
- When connecting wire. Use devices like a connector for pressing and insulate it certainly.
Prevent water by using self fusing tape as the need arises.
Miss connecting may cause leak current leading to electric shock or fire.
- Do not touch when it works or just finished working because the surface of lamp is so hot.
- Replacement of lamp must be done after turning it off and it became normal temperature.
- LED has unevenness in color and brightness.
They may be different by each lamp.
- Do not modify. In case it was modified. It will be out of guarantee.
- Do not stare the lamp for a long time while it's working.
It may cause damage on eyes.
- Do not use for purpose that special quality, reliability is required, and the working of itself or the trouble and malfunction threaten human life directly.
Do not use it for the use that might give harm to the human body also.
For example universe, aviation, atomic energy, a combustion control, transportation, traffic, various safety devices, and life-support-related medical equipment

8. Remarks

Characteristic of light distribution

Declivity of horizontal plane.



Total luminous flux 11000 Lm
1/2 beam angle 80°

